

Datasheet: VMA00288KT

Description:	HEAT SHOCK 70 kDa PROTEIN 4 ANTIBODY WITH CONTROL LYSATE
Specificity:	HEAT SHOCK 70 kDa PROTEIN 4
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Isotype:	lgG1
Quantity:	2 Westerns

### **Product Details**

## **Applications**

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit <a href="www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	Yes	No	Not Determined	Suggested Dilution
Western Blotting				1/1000

PrecisionAb antibodies have been extensively <u>validated for the western blot</u> <u>application</u>. The antibody has been validated at the suggested dilution. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependant on sample type.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	20μl Mouse monoclonal antibody prepared by affinity chromatography on Protein G from ascites
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN <sub>3</sub> )
Immunogen	Purified recombinant fragment of human heat shock 70 kDa protein 4 expressed in E. coli
External Database Links	UniProt:

P34932 Related reagents

#### **Entrez Gene:**

3308 HSPA4 Related reagents

70 kDa protein 4, also known as epididymis secretory sperm binding protein Li 5a, shock 70-related protein APG-2, heat shock protein, 110 kDa and hsp70 RY.  Mouse anti Human heat shock 70 kDa protein 4 antibody detects a band of 70 kDa antibody has been extensively validated for western blotting using whole cell lysate  Western Blotting Anti heat shock 70 kDa protein 4 detects a band of approximately 70 kDa in MCF7 lysates  Instructions For Use Please refer to the PrecisionAb western blotting protocol. For additional information secondary antibody dilution and exposure time see product web page.  Lysate Composition 400μg MCF7 lysate lyophilized in RIPA buffer.  Lysate Reconstitution - If using DDT reconstitute the lyophilized lysate with 190μl DI H₂O, add 200μl 2x L Sample Buffer and 10μl 2M DTT.  - If using BME reconstitute the lyophilized lysate with 180μl DI H₂O, add 200μl 2x L Sample Buffer and 20μl BME.  Heat at 95°C for 5 minutes. For 10 well mini gels load 25μl. For other gel and comb formats please refer to the PrecisionAb western blotting protocol.  Storage Antibody: Store undiluted at -20°C, avoiding repeated freeze thaw cycles.  Lysate: Store lyophilized lysate at -20°C. After reconstitution aliquot and store at -20 μp to 3 months or at -80°C for longer term storage.  Guarantee As supplied, 12 months from date of despatch.  Acknowledgements PrecisionAb™ is a trademark of Bio-Rad Laboratories.  Health And Safety Information Material Safety Datasheet documentation #10040 #10561 available at: Antibody (10040): https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf		
70 kDa protein 4, also known as epididymis secretory sperm binding protein Li 5a, shock 70-related protein APG-2, heat shock protein, 110 kDa and hsp70 RY.  Mouse anti Human heat shock 70 kDa protein 4 antibody detects a band of 70 kDa antibody has been extensively validated for western blotting using whole cell lysate  Western Blotting Anti heat shock 70 kDa protein 4 detects a band of approximately 70 kDa in MCF7 lysates  Instructions For Use Please refer to the PrecisionAb western blotting protocol. For additional information secondary antibody dilution and exposure time see product web page.  Lysate Composition 400µg MCF7 lysate lyophilized in RIPA buffer.  Lysate Reconstitution - If using DDT reconstitute the lyophilized lysate with 190µl DI H₂O, add 200µl 2x L Sample Buffer and 10µl 2M DTT.  - If using BME reconstitute the lyophilized lysate with 180µl DI H₂O, add 200µl 2x L Sample Buffer and 20µl BME.  Heat at 95°C for 5 minutes. For 10 well mini gels load 25µl. For other gel and comb formats please refer to the PrecisionAb western blotting protocol.  Storage Antibody: Store undiluted at -20°C, avoiding repeated freeze thaw cycles.  Lysate: Store lyophilized lysate at -20°C. After reconstitution aliquot and store at -20 up to 3 months or at -80°C for longer term storage.  Guarantee As supplied, 12 months from date of despatch.  Acknowledgements PrecisionAb™ is a trademark of Bio-Rad Laboratories.  Material Safety Datasheet documentation #10040 #10561 available at: Antibody (10040): https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf Lysate Material (10561): https://www.bio-rad-antibodies.com/uploads/MSDS/10561.	Synonyms	APG2
antibody has been extensively validated for western blotting using whole cell lysate.  Western Blotting  Anti heat shock 70 kDa protein 4 detects a band of approximately 70 kDa in MCF7 lysates  Instructions For Use  Please refer to the PrecisionAb western blotting protocol. For additional information secondary antibody dilution and exposure time see product web page.  Lysate Composition  400μg MCF7 lysate lyophilized in RIPA buffer.  Lysate Reconstitution  - If using DDT reconstitute the lyophilized lysate with 190μl DI H₂O, add 200μl 2x L Sample Buffer and 10μl 2M DTT.  - If using BME reconstitute the lyophilized lysate with 180μl DI H₂O, add 200μl 2x L Sample Buffer and 20μl BME.  Heat at 95°C for 5 minutes. For 10 well mini gels load 25μl. For other gel and comb formats please refer to the PrecisionAb western blotting protocol.  Storage  Antibody: Store undiluted at -20°C, avoiding repeated freeze thaw cycles.  Lysate: Store lyophilized lysate at -20°C. After reconstitution aliquot and store at -20 μp to 3 months or at -80°C for longer term storage.  Guarantee  As supplied, 12 months from date of despatch.  Acknowledgements  PrecisionAb™ is a trademark of Bio-Rad Laboratories.  Material Safety Datasheet documentation #10040 #10561 available at:  Antibody (10040): https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf Lysate Material (10561): https://www.bio-rad-antibodies.com/uploads/MSDS/10561.	Specificity	Mouse anti Human heat shock 70 kDa protein 4 antibody recognizes the heat shock 70 kDa protein 4, also known as epididymis secretory sperm binding protein Li 5a, heat shock 70-related protein APG-2, heat shock protein, 110 kDa and hsp70 RY.
Instructions For Use Please refer to the PrecisionAb western blotting protocol. For additional information secondary antibody dilution and exposure time see product web page.  Lysate Composition  400μg MCF7 lysate lyophilized in RIPA buffer.  Lysate Reconstitution  - If using DDT reconstitute the lyophilized lysate with 190μl DI H₂O, add 200μl 2x L Sample Buffer and 10μl 2M DTT.  - If using BME reconstitute the lyophilized lysate with 180μl DI H₂O, add 200μl 2x L Sample Buffer and 20μl BME.  Heat at 95°C for 5 minutes. For 10 well mini gels load 25μl. For other gel and comb formats please refer to the PrecisionAb western blotting protocol.  Storage  Antibody: Store undiluted at -20°C, avoiding repeated freeze thaw cycles.  Lysate: Store lyophilized lysate at -20°C. After reconstitution aliquot and store at -20 μp to 3 months or at -80°C for longer term storage.  Guarantee  As supplied, 12 months from date of despatch.  Acknowledgements  PrecisionAb™ is a trademark of Bio-Rad Laboratories.  Material Safety Datasheet documentation #10040 #10561 available at:  Antibody (10040): https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf Lysate Material (10561): https://www.bio-rad-antibodies.com/uploads/MSDS/10561.		Mouse anti Human heat shock 70 kDa protein 4 antibody detects a band of 70 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.
Storage  Autibody: Store undiluted at -20°C, avoiding repeated freeze thaw cycles.  Lysate: Store lyophilized lysate at -20°C. After reconstitution aliquot and store at -20 up to 3 months or at -80°C for longer term storage.  Guarantee  As supplied, 12 months from date of despatch.  Acknowledgements  Material Safety Information  Autibody (10040): https://www.bio-rad-antibodies.com/uploads/MSDS/10561.	Western Blotting	Anti heat shock 70 kDa protein 4 detects a band of approximately 70 kDa in MCF7 cell lysates
Lysate Reconstitution  - If using DDT reconstitute the lyophilized lysate with 190µl DI H₂O, add 200µl 2x L. Sample Buffer and 10µl 2M DTT.  - If using BME reconstitute the lyophilized lysate with 180µl DI H₂O, add 200µl 2x L. Sample Buffer and 20µl BME.  Heat at 95°C for 5 minutes. For 10 well mini gels load 25µl. For other gel and comb formats please refer to the PrecisionAb western blotting protocol.  Storage  Antibody: Store undiluted at -20°C, avoiding repeated freeze thaw cycles.  Lysate: Store lyophilized lysate at -20°C. After reconstitution aliquot and store at -20 up to 3 months or at -80°C for longer term storage.  Guarantee  As supplied, 12 months from date of despatch.  Acknowledgements  PrecisionAb™ is a trademark of Bio-Rad Laboratories.  Health And Safety Information  Material Safety Datasheet documentation #10040 #10561 available at:  Antibody (10040): https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf Lysate Material (10561): https://www.bio-rad-antibodies.com/uploads/MSDS/10561.	Instructions For Use	Please refer to the <u>PrecisionAb western blotting protocol</u> . For additional information on secondary antibody dilution and exposure time see product web page.
Sample Buffer and 10µl 2M DTT.  - If using BME reconstitute the lyophilized lysate with 180µl DI H₂O, add 200µl 2x L Sample Buffer and 20µl BME.  Heat at 95°C for 5 minutes. For 10 well mini gels load 25µl. For other gel and comb formats please refer to the PrecisionAb western blotting protocol.  Storage  Antibody: Store undiluted at -20°C, avoiding repeated freeze thaw cycles.  Lysate: Store lyophilized lysate at -20°C. After reconstitution aliquot and store at -20° up to 3 months or at -80°C for longer term storage.  Guarantee  As supplied, 12 months from date of despatch.  PrecisionAb™ is a trademark of Bio-Rad Laboratories.  Health And Safety Information  Material Safety Datasheet documentation #10040 #10561 available at:  Antibody (10040): https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf Lysate Material (10561): https://www.bio-rad-antibodies.com/uploads/MSDS/10561.	Lysate Composition	400μg MCF7 lysate lyophilized in RIPA buffer.
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Health And Safety Information  Material Safety Datasheet documentation #10040 #10561 available at:  Antibody (10040): <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a> Lysate Material (10561): <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10561.">https://www.bio-rad-antibodies.com/uploads/MSDS/10561.</a>	Guarantee	As supplied, 12 months from date of despatch.
Antibody (10040): <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a> Lysate Material (10561): <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10561.">https://www.bio-rad-antibodies.com/uploads/MSDS/10561.</a>	Acknowledgements	PrecisionAb™ is a trademark of Bio-Rad Laboratories.
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	Regulatory	For research purposes only

# **Related Products**

# **Recommended Secondary Antibodies**

Goat Anti Mouse IgG (H/L) (STAR207...) HRP

**Recommended Negative Controls** 

### MOUSE IgG1 NEGATIVE CONTROL (MCA928)

 North & South
 Tel: +1 800 265 7376
 Worldwide
 Tel: +44 (0)1865 852 700
 Europe
 Tel: +49 (0) 89 8090 95 21

 America
 Fax: +1 919 878 3751
 Fax: +44 (0)1865 852 739
 Fax: +49 (0) 89 8090 95 50

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