

Datasheet: VMA00049KT

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| Description: | ACTIN GAMMA ANTIBODY WITH CONTROL LYSATE |
| Specificity: | ACTIN GAMMA |
| Other names: | ACTG1 |
| Format: | Purified |
| Product Type: | PrecisionAb™ Monoclonal |
| Isotype: | IgG2b |
| 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 www.bio-rad-antibodies.com/protocols.

| | Yes | No | Not Determined | Suggested Dilution |
|------------------|-----|----|----------------|--------------------|
| Western Blotting | ▪ | | | 1/1000 |

PrecisionAb antibodies have been extensively [validated for the western blot application](#). 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.

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| Target Species | Human |
| Species Cross Reactivity | Reacts with: African green monkey , Mouse, Rat N.B. Antibody reactivity and working conditions may vary between species. |
| Product Form | Purified IgG - liquid |
| Preparation | 20µl Mouse monoclonal antibody purified by affinity chromatography on Protein A from tissue culture supernatant |
| Buffer Solution | Phosphate buffered saline |
| Preservative Stabilisers | 0.09% Sodium Azide (NaN ₃) |
| Immunogen | Synthetic peptide corresponding to the N-terminal nonapeptide of gamma-cytoplasmic actin coupled to KLH |
| External Database Links | <p>UniProt:</p> <p>P63261 Related reagents</p> <p>Entrez Gene:</p> |

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| Synonyms | ACTB, ACTG |
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| Specificity | <p>Mouse anti Human actin gamma antibody recognizes cytoplasmic actin gamma, a 375 amino acid cytoskeletal protein also known as ACTG and gamma actin.</p> <p>Actins are highly conserved proteins that are involved in cell motility, structure and integrity and are ubiquitously expressed in all eukaryotic cells. Six different isoforms of actin have been identified (Vandekerckhove and Weber 1978). Mouse anti Human actin gamma antibody is highly specific for actin gamma and does not react with other actin isoforms.</p> <p>Mouse anti Human actin gamma antibody recognizes actin gamma as a single band of ~42 kDa in multiple human cell line lysates by western blotting under reducing conditions.</p> |
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| Western Blotting | Anti actin gamma antibody detects a band of approximately 42 kDa in HeLa cell lysates. |
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| Instructions For Use | Please refer to the PrecisionAb western blotting protocol . For additional information on secondary antibody dilution and exposure time see product web page. |
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| Lysate Composition | 400µg HeLa lysate lyophilized in RIPA buffer. |
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| Lysate Reconstitution | <ul style="list-style-type: none">- If using DDT reconstitute the lyophilized lysate with 190µl DI H₂O, add 200µl 2x Laemmli Sample Buffer and 10µl 2M DTT.- If using BME reconstitute the lyophilized lysate with 180µl DI H₂O, add 200µl 2x Laemmli Sample Buffer and 20µl BME. <p>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.</p> |
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| Storage | <p>Antibody: Store undiluted at -20°C, avoiding repeated freeze thaw cycles.</p> <p>Lysate: Store lyophilized lysate at -20°C. After reconstitution aliquot and store at -20°C for up to 3 months or at -80°C for longer term storage.</p> |
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| Shelf Life | As supplied, 12 months from date of despatch. |
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| Acknowledgements | PrecisionAb™ is a trademark of Bio-Rad Laboratories. |
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| Health And Safety Information | <p>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.pdf</p> |
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| Regulatory | For research purposes only |
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Related Products

Recommended Secondary Antibodies

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

Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL \(MCA691\)](#)

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