

Datasheet: VPA00587KT

Description:	MEK 2 ANTIBODY WITH CONTROL LYSATE
Specificity:	MEK 2
Format:	Purified
Product Type:	PrecisionAb Polyclonal
Isotype:	Polyclonal IgG
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.

Target Species	Human
Product Form	Purified IgG - liquid.
Preparation	20µl Rabbit polyclonal antibody purified by affinity chromatography.
Buffer Solution	Phosphate buffered saline.
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 2% Sucrose.
Immunogen	Synthetic peptide directed towards the N terminal region of human MEK 2

External Database Links

UniProt:

[P36507](#) [Related reagents](#)

Entrez Gene:

[5605](#) MAP2K2 [Related reagents](#)

Synonyms	MEK2, MKK2, PRKMK2
Specificity	<p>Rabbit anti Human MEK 2 antibody recognizes MEK 2 also known as dual specificity mitogen-activated protein kinase kinase 2, also known as ERK activator kinase 2, MAP kinase kinase 2, MAPK/ERK kinase 2, MAPKK2 or p45.</p> <p>The protein encoded by MAP2K2 gene is a dual specificity protein kinase that belongs to the MAP kinase kinase family. This kinase is known to play a critical role in mitogen growth factor signal transduction. It phosphorylates and thus activates MAPK1/ERK2 and MAPK2/ERK3. The activation of this kinase itself is dependent on the Ser/Thr phosphorylation by MAP kinase kinase kinases. Mutations in MAP2K2 gene cause Cardiofaciocutaneous syndrome 4 (CFC4), a disease characterized by heart defects, mental retardation, and distinctive facial features similar to those found in Noonan syndrome (Schulz et al. 2008). The inhibition or degradation of this kinase is also found to be involved in the pathogenesis of <i>Yersinia</i> and anthrax. A pseudogene, which is located on chromosome 7, has been identified for MAP2K2 (provided by RefSeq, Jul 2008).</p> <p>Rabbit anti Human MEK 2 antibody detects a band of 49 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.</p>
Western Blotting	Anti MEK 2 detects a band of approximately 49 kDa in HepG2 cell lysates.
Instructions For Use	Please refer to the PrecisionAb western blotting protocol .
Lysate Composition	400µg HepG2 lysate lyophilized in RIPA buffer.
Lysate Reconstitution	<p>- If using DDT reconstitute the lyophilized lysate with 190µl DI H₂O, add 200µl 2x Laemmli Sample Buffer and 10µl 2M DTT.</p> <p>- If using BME reconstitute the lyophilized lysate with 180µl DI H₂O, add 200µl 2x Laemmli Sample Buffer and 20µl BME.</p> <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>
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>
Guarantee	As supplied, 12 months from date of despatch.
Acknowledgements	PrecisionAb is a trademark of Bio-Rad Laboratories.
Health And Safety Information	<p>Material Safety Datasheet documentation #10045 #10561 available at: Antibody (10045): https://www.bio-rad-antibodies.com/uploads/MSDS/10045.pdf Lysate Material (10561): https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf</p>
Regulatory	For research purposes only.

Related Products

Recommended Secondary Antibodies

Goat Anti Rabbit IgG (H/L) (STAR208...) [HRP](#)

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