

Datasheet for ABIN7601283
anti-MARK3 antibody (AA 311-648)



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Overview

Quantity:	100 µg
Target:	MARK3
Binding Specificity:	AA 311-648
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MARK3 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-MARK3 Antibody Picoband®
Immunogen:	E.coli-derived human MARK3 recombinant protein (Position: H311-D648).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-MARK3 Antibody Picoband® (ABIN7601283). Tested in ELISA, IHC, WB, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	MARK3
Alternative Name:	MARK3 (MARK3 Products)
Background:	Synonyms: Cytoskeleton-associated protein 5, Colonic and hepatic tumor overexpressed gene protein, Ch-TOG, CKAP5, KIAA0097 Tissue Specificity: Expressed in fetal brain. Highly expressed in brain and placenta. Lower levels in heart, liver, thymus, kidney and lung. Located to endothelial cells and neuronal cells of the suprachiasmatic nucleus (SCN). Also detected in endothelial cells of the heart, lung and kidney. In the brain, specifically expressed in the thalamus, hippocampus and amygdala. Background: MAP/microtubule affinity-regulating kinase 3 is an enzyme that in humans is encoded by the MARK3 gene. The protein encoded by this gene is activated by phosphorylation and in turn is involved in the phosphorylation of tau proteins MAP2 and MAP4. Several transcript variants encoding different isoforms have been found for this gene.
Molecular Weight:	80 kDa
Gene ID:	4140
UniProt:	P27448
Pathways:	SARS-CoV-2 Protein Interactome

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat Immunohistochemistry(Paraffin-embedded Section), 2-5 µg/mL, Human, Mouse, Rat Flow Cytometry (Fixed), 1-3 µg/1x10⁶ cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Ansar, M., Chung, H., Waryah, Y. M., Makrythanasis, P., Falconnet, E., Rao, A. R., Guipponi, M., Narsani, A. K., Fingerhut, R., Santoni, F. A., Ranza, E., Waryah, A. M., Bellen, H. J., Antonarakis, S. E. Visual impairment and progressive phthisis bulbi caused by recessive pathogenic variant in MARK3. Hum. Molec. Genet. 27: 2703-2711, 2018. 2. Lennerz, J. K., Hurov, J. B., White, L. S., Lewandowski, K. T., Prior, J. L., Planer, G. J., Gereau, R. W., IV, Piwnica-Worms, D., Schmidt, R. E., Piwnica-Worms, H. Loss of Par-1a/MARK3/C-TAK1 kinase leads to reduced adiposity, resistance to hepatic steatosis, and defective gluconeogenesis. Molec. Cell. Biol. 30: 5043-5056, 2010. 3. Muller, J., Ory, S., Copeland, T., Piwnica-Worms, H., Morrison, D. K. C-TAK1 regulates Ras signaling by phosphorylating the MAPK scaffold, KSR1. Molec. Cell 8: 983-993, 2001.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Storage:	4 °C, -20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.