Datasheet for ABIN7602251

anti-MELK antibody (AA 66-629)

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Overview

Quantity:	100 µg
Target:	MELK
Binding Specificity:	AA 66-629
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MELK antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-MELK Antibody Picoband®
Immunogen:	E.coli-derived human MELK recombinant protein (Position: H66-Q629).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-MELK Antibody Picoband® (ABIN7602251). Tested in ELISA, IF, IHC, ICC, 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:	MELK
Alternative Name:	MELK (MELK Products)
Background:	Synonyms: Homeobox protein Hox-A5, Homeobox protein Hox-1C, HOXA5, HOX1C Tissue Specificity: Ubiquitously expressed. Present at highest levels in the brain, at high levels in the placenta and testis, at intermediate levels in the intestine, ovary, skeletal muscle and thymus and at lower levels in heart, kidney, liver, lung, pancreas, prostate and spleen. In the kidney, it is widely expressed in tubules, but sparsely expressed in the glomerulus (PubMed:24676636). Expression is significantly increased in renal biopsy specimens from idiopathic FSGS (PubMed:24676636). Overexpressed in many tumor types including breast, colorectal, endometrial, hepatic, kidney, lung, ovarian and pancreatic tumors. Background: Maternal embryonic leucine zipper kinase (MELK) is an enzyme that in humans is encoded by the MELK gene. Maternal embryonic leucine-zipper kinase (MELK) is a key regulator of survival of stemlike GBM cells in vitro. MELK expression is increased in breast cancer tissue and this increase is also associated with poor patient survival, as predicted for a candidate oncogene.
Molecular Weight:	66 kDa
Gene ID:	9833
UniProt:	Q14680

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human Immunohistochemistry, 2-5 µg/mL, Mouse, Rat Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg /1x10^6 cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Heyer, B. S., Warsowe, J., Solter, D., Knowles, B. B., Ackerman, S. L. New member of the Snf1/AMPK kinase family, Melk, is expressed in the mouse egg and preimplantation embryo. Molec. Reprod. Dev. 47: 148-156, 1997. 2. Hirose, T., Horvitz, H. R. An Sp1 transcription factor coordinates caspase-dependent and -independent apoptotic pathways. Nature 500: 354-358, 2013. 3. Nagase, T., Seki, N., Ishikawa, K., Tanaka, A., Nomura, N. Prediction of the coding sequences of unidentified human genes. V. The coding sequences of 40 new genes (KIAA0161-KIAA0200) deduced by analysis of cDNA clones from human cell line KG-1. DNA Res. 3: 17-24, 1996.

Application Details

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 Na2HPO4.
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.