

# AB-NK229-2

## MELK-1 Antibody

Pan-specific polyclonal antibody for monitoring the expression of human protein-serine/threonine kinase MELK



**KINEXUS**

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### Target Protein

<b>Name Long:</b>	Maternal embryonic leucine zipper kinase
<b>Alias:</b>	hMELK; hPK38; KIAA0175; Maternal embryonic leucine zipper kinase; MELK; pEg3 kinase; Protein kinase PK38
<b>UniProt ID:</b>	Q14680
<b>Sequence Predicted Mass (KDa):</b>	74.642 (651 AA; Q14680); 71.174 (619 AA; Q14680-6); 70.150 (610 AA; Q14680-7); 69.116 (603 AA; Q14680-8); 66.547 (580 AA; Q14680-5); 66.399 (580 AA; Q14680-2); 59.576 (520 AA; Q14680-4); 52.528 (457 AA; Q14680-3)
<b>Observed SDS-PAGE Mass (KDa):</b>	70-75

### Immunogen

<b>Antibody Immunogen Source:</b>	Human MELK sequence peptide Cat. No.: PE-01AST85
<b>Antibody Immunogen Sequence:</b>	MKDYDELLKYYELHEC
<b>Location in Target:</b>	Corresponds to amino acid residues M1 to E15; N-terminus
<b>Peptide Type:</b>	For pan-specific recognition of target expression levels.
<b>Target Phosphosite:</b>	Not phosphorylated

### Production

<b>Antibody Host Species:</b>	Rabbit
<b>Antibody Type:</b>	Polyclonal
<b>Antibody Ig Isotype Clone Lot:</b>	Immunoglobulin G
<b>Production Method:</b>	The immunizing peptide was produced by solid phase synthesis on a multipеп peptide synthesizer and purified by reverse-phase hplc chromatography. Purity was assessed by analytical hplc and the amino acid sequence confirmed by mass spectrometry analysis. This peptide was coupled to KLH prior to immunization into rabbits. New Zealand White rabbits were subcutaneously injected with KLH-coupled immunizing peptide every 4 weeks for 4 months. The sera from each animal was applied onto an agarose column to which the immunogen peptide was thio-linked. Antibody was eluted from the column with 0.1 M glycine, pH 2.5. Subsequently, the antibody solution was neutralized to pH 7.0 with saturated Tris.
<b>Antibody Amount:</b>	25 µg
<b>Antibody Concentration:</b>	1 mg/ml
<b>Lot Number:</b>	140724
<b>Storage Buffer:</b>	Phosphate buffered saline (PBS) pH7.4, 0.05% Thimerasol
<b>Storage Conditions and Stability:</b>	For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles.

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### Applications

<b>Product Use:</b>	Western blotting   Antibody microarrays
<b>Antibody Dilution Recommended:</b>	2 µg/ml for immunoblotting
<b>Antibody Species Reactivity:</b>	Human, mouse, rat and many other mammals
<b>Antibody Positive Controls:</b>	Medium immunoreactivity with recombinant human MELK on protein dot blots.
<b>Overall Antibody Specificity:</b>	Very high selectivity

This product is for in vitro research use only and is not intended for use in humans or animals.

For more information on our products please visit [www.kinexusproducts.ca](http://www.kinexusproducts.ca) or contact us at 1-866-KINEXUS(546-3987)