

# AB-NK281-1

## MOK-AKCD Antibody

Pan-specific polyclonal antibody for monitoring the expression of human protein-serine/threonine kinase MOK (RAGE)



**KINEXUS**

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### Target Protein

<b>Name Long:</b>	MAPK-MAK-MRK overlapping kinase; MOK protein kinase
<b>Alias:</b>	RAGE; RAGE1
<b>UniProt ID:</b>	Q9UQ07
<b>Sequence Predicted Mass (KDa):</b>	48.014 (419 AA; Q9UQ07); 47.886 (418 AA; Q9UQ07-6); 44.425 (389 AA; Q9UQ07-5); 27.120 (231 AA; Q9UQ07-2); 10.482 (95 AA; Q9UQ07-4); 7.879 (73 AA; Q9UQ07-3)
<b>Observed SDS-PAGE Mass (KDa):</b>	47-52

### Immunogen

<b>Antibody Immunogen Source:</b>	Human MOK (RAGE) sequence peptide Cat. No.: PE-01BEB85
<b>Antibody Immunogen Sequence:</b>	EQRKTEKRALGSHRKAGC
<b>Location in Target:</b>	Corresponds to amino acid residues E287 to G303; Right after kinase catalytic domain
<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 multipep 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>	160628
<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>Detection by Immunoblotting in Cell/Tissue Lysates:</b>	Medium immunoreactivity of a target-sized protein by Western blotting in mouse brain, skeletal muscle and thymus, and in human HepG2 cells.
<b>Overall Antibody Specificity:</b>	Very high selectivity
<b>Antibody Cross Reactivities:</b>	No cross-reactivities detected in mouse brain, skeletal muscle, testes and thymus, except for a ~38 KDa protein in mouse skeletal muscle. No significant cross-reactivities detected in various human cancer cell lines, including A431, HEK-293, HeLa, HepG2, Jurkat and MCF7 cells.

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)