10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-MOK Antibody

Catalog # AP51358

Product Information

Application	WB, IHC, IF/IC
Primary Accession	Q9UQ07
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	48014

Additional Information

Gene ID	5891
Other Names	RAGE; RAGE1; MAPK/MAK/MRK overlapping kinase; MOK protein kinase; Renal tumor antigen 1; RAGE-1
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human MOK. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

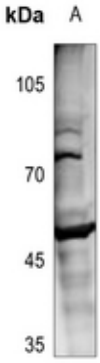
Protein Information

Name	MOK
Synonyms	RAGE, RAGE1
Function	Able to phosphorylate several exogenous substrates and to undergo autophosphorylation. Negatively regulates cilium length in a cAMP and mTORC1 signaling-dependent manner.
Cellular Location	Cytoplasm {ECO:0000250|UniProtKB:Q9WVS4}. Cell projection, cilium {ECO:0000250|UniProtKB:Q9WVS4}. Nucleus {ECO:0000250|UniProtKB:Q9WVS4}
Tissue Location	Expressed in heart, brain, lung, kidney, and pancreas, and at very low levels in placenta, liver and skeletal muscle. Detected in retina

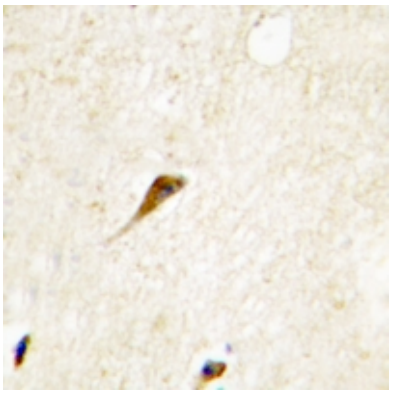
References

Miyata Y.,et al.Genes Cells 4:299-309(1999).
Gaugler B.,et al.Immunogenetics 44:323-330(1996).
Greenman C.,et al.Nature 446:153-158(2007).

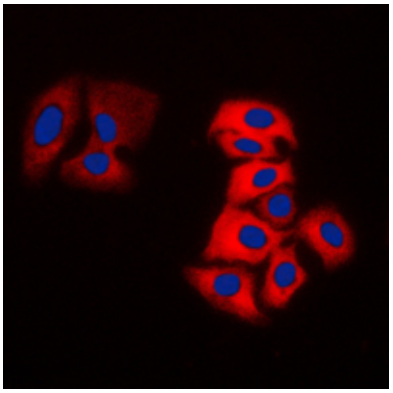
Images



Western blot analysis of MOK expression in Myla2059 (A) whole cell lysates. (Predicted band size: 48 kD; Observed band size: 48 kD)



Immunohistochemical analysis of MOK staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of MOK staining in MDAMB231 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.