

For Research Use Only

MKKNK2 Recombinant antibody

Catalog Number:83235-1-RR



Basic Information

Catalog Number: 83235-1-RR	GenBank Accession Number: BC018345	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 2872	CloneNo.: 240045B3
Source: Rabbit	UNIPROT ID: Q9HBH9	Recommended Dilutions: IF/ICC 1:125-1:500
Isotype: IgG	Full Name: MAP kinase interacting serine/threonine kinase 2	
Immunogen Catalog Number: AG10546	Calculated MW: 465 aa, 52 kDa	
	Observed MW: 47-52 kDa	

Applications

Tested Applications: IF/ICC, FC (Intra), ELISA	Positive Controls: IF/ICC : MCF-7 cells,
Species Specificity: human	

Background Information

MKKNK2(MAP kinase-interacting serine/threonine-protein kinase 2) is also named as GPRK7, MNK2 and belongs to the CAMK Ser/Thr protein kinase family. It has a conserved C-terminal Erk-interacting domain, a catalytic domain with homology to the calcium/calmodulin-dependent family of kinases, and putative MAP kinase phosphorylation sites located within the T loop of the kinase domain(PMID:9155017). The breast cancer cells express either an uncharacterized form of MNK2 or a cross-reacting MNK2-like protein with the band of 72-75 kDa by western blot(PMID:17130135). MKKNK2 has 2 isoforms with the molecular mass of 52 kDa and 47 kDa.

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

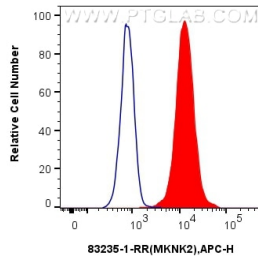
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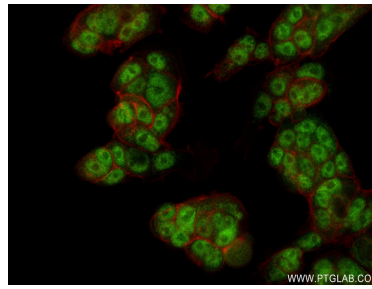
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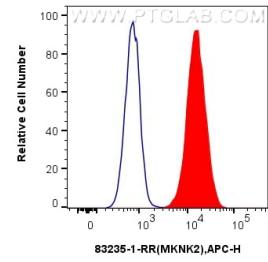
Selected Validation Data



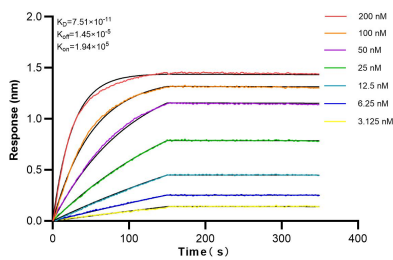
1x10⁶ HeLa cells were intracellularly stained with 0.25 ug MKNK2 Recombinant antibody (83235-1-RR, Clone:240045B3) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using MKNK2 antibody (83235-1-RR, Clone: 240045B3) at dilution of 1:250 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



1x10⁶ MCF-7 cells were intracellularly stained with 0.25 ug MKNK2 Recombinant antibody (83235-1-RR, Clone:240045B3) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Bi-layer interferometry (BLI) kinetic assays of 83235-1-RR against Human MKNK2 were performed. The affinity constant is 75.1 pM.