

For Research Use Only

# MKKNK2 Recombinant antibody, PBS Only (Detector)

Catalog Number:83235-1-PBS



## Basic Information

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

## Applications

**Tested Applications:**  
IF/ICC, FC (Intra), Cytometric bead array, Indirect ELISA

**Species Specificity:**  
human

## Product Information

83235-1-PBS targets MKKNK2 as part of a matched antibody pair:

MP00216-2: 83235-4-PBS capture and 83235-1-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

## 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 -80°C.  
**Storage Buffer:**  
PBS Only

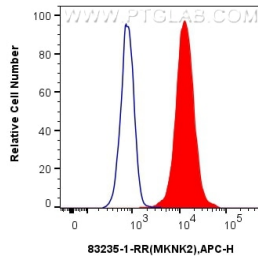
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

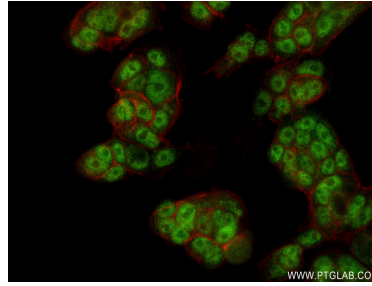
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

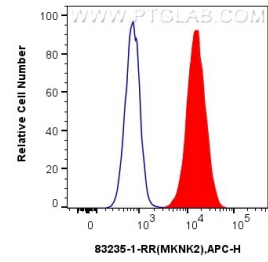
## Selected Validation Data



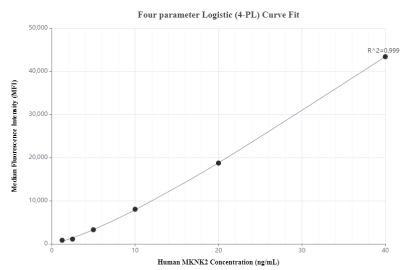
1x10<sup>6</sup> HeLa cells were intracellularly stained with 0.25 ug MKNK2 Recombinant antibody (83235-1-RR, Clone:240045B3) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011). This data was developed using the same antibody clone with 83235-1-PBS in a different storage buffer formulation.



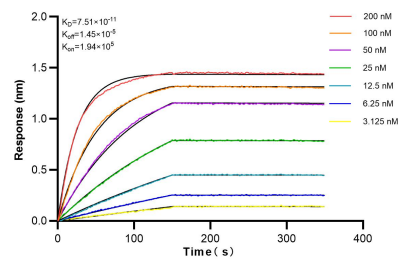
Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using MKNK2 antibody (83235-1-RR, Clone: 240045B3 ) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 83235-1-PBS in a different storage buffer formulation.



1x10<sup>6</sup> 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). This data was developed using the same antibody clone with 83235-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP00216-2, MKNK2 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83235-4-PBS. Detection antibody: 83235-1-PBS. Standard: Ag10546. Range: 1.25-40 ng/mL.



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