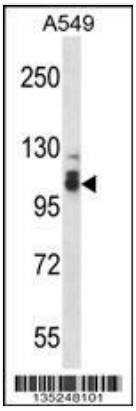
SMEK2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SMEK2, Polyclonal Antibody
Full Product Name	SMEK2, CT (SMEK2, KIAA1387, PP4R3B, PPP4R3B, Serine/threonine-protein phosphatase 4 regulatory subunit 3B, SMEK homolog 2) (APC)
Product Gene Name	anti-SMEK2 antibody
Product Synonym Names	SMEK2; KIAA1387; PP4R3B; PPP4R3B; Serine/threonine-protein phosphatase 4 regulatory subunit 3B; SMEK homolog 2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: APC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	84 kDa
OMIM	610352
3D Structure	ModBase 3D Structure for Q5MIZ7
Immunogen	SMEK2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 719-748 amino acids from the C-terminal region of human SMEK2.
Conjugate	APC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-SMEK2 antibody	Antibodies; Enzymes; Phosphatase
Applications Tested/Suitable for anti-SMEK2 antibody	Western Blot (WB), FLISA
Application Notes for anti-SMEK2 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-SMEK2 antibody	Regulatory subunit of serine/threonine-protein phosphatase 4 (PP4). May regulate the activity of PPP4C at centrosomal microtubule organizing centers.
Product References and Citations for anti-SMEK2 antibody	Chowdhury, D., et al. Mol. Cell 31(1):33-46(2008). Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007): Beausoleil, S.A., et al. Nat. Biotechnol. 24(10):1285-1292(2006). Gingras, A.C., et al. Mol. Cell Proteomics 4(11):1725-1740(2005). Mendoza, M.C., et al. Mol. Cell. Biol. 25(17):7839-7853(2005).

Other Notes	Small volumes of anti-SMEK2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SMEK2 purchase	MBS6348947 is an antibody targeting SMEK2. Also known as SMEK2, CT (SMEK2, KIAA1387, PP4R3B, PPP4R3B, Serine/threonine-protein phosphatase 4 regulatory subunit 3B, SMEK homolog 2) (APC). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-SMEK2 antibody
SMEK2 Antibody (C-term) western blot analysis in A549 cell line lysates (35ug/lane).This demonstrates the SMEK2 antibody detected the SMEK2 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SMEK2. It may not necessarily be applicable to this product.

NCBI GI #	334302843
NCBI GeneID	57223
NCBI Accession #	NP_065196.1
NCBI Related Accession #	NP_001116436.1
UniProt Primary Accession #	Q5MIZ7
UniProt Related Accession #	Q5MIZ7
GenBank Nucleotide #	NM_020463.3
NCBI Official Full Name	Serine/threonine-protein phosphatase 4 regulatory subunit 3B
NCBI Official Synonym Full Names	protein phosphatase 4 regulatory subunit 3B
NCBI Official Symbol	PPP4R3B
NCBI Official Synonym Symbols	PSY2; smk1; FLFL2; SMEK2; PP4R3B
UniProt Protein Name	Serine/threonine-protein phosphatase 4 regulatory subunit 3B
UniProt Synonym Protein Names	SMEK homolog 2
UniProt Gene Name	SMEK2
UniProt Synonym Gene Names	KIAA1387; PP4R3B; PPP4R3B
UniProt Entry Name	P4R3B_HUMAN
NCBI Protein Information	serine/threonine-protein phosphatase 4 regulatory subunit 3B

UniProt Comments for SMEK2	SMEK2: Regulatory subunit of serine/threonine-protein phosphatase 4 (PP4). May regulate the activity of PPP4C at centrosomal microtubule organizing centers. Belongs to the SMEK family. 5 isoforms of the human protein are produced by alternative splicing. Protein type: Protein phosphatase, regulatory subunit; Cell cycle regulation Chromosomal Location of Human Ortholog: 2p16.1 Cellular Component: nucleoplasm; cytoplasm; microtubule organizing center Biological Process: positive regulation of gluconeogenesis; regulation of lipid metabolic process; protein amino acid dephosphorylation
Research Articles on SMEK2	**1.** A three-protein PP4 phosphatase complex in mammalian cells, containing PP4C, PP4R2, and PP4R3beta, specifically dephosphorylates ATR-mediated gamma-H2AX generated during DNA replication.
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