

Rabbit anti-Human STK29 Polyclonal Antibody | anti-BRSK2 antibody

STK29 Antibody (C-term)

CATALOG # AAA286422	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry, ELISA, Western Blot
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PRODUCT SYNONYMS

STK29; Polyclonal Antibody; STK29 Antibody (C-term); Serine/threonine-protein kinase BRSK2; Brain-selective kinase 2; Brain-specific serine/threonine-protein kinase 2; BR serine/threonine-protein kinase 2; Serine/threonine-protein kinase 29; Serine/threonine-protein kinase SAD-A; BRSK2; C11orf7; PEN11B; SADA; anti-BRSK2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This STK29 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 706-736 amino acids from the C-terminal region of human STK29.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Concentration	Vial Concentration: 2 (varies by lot)
Sequence Positions	706-736
Sequence Length	736
Applicable Applications for anti-BRSK2 antibody	IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.



WB (Western Blot)

Western blot analysis of anti-STK29 Pab in HL60 cell line lysate (35ug/lane). STK29(arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Related Product Information for anti-BRSK2 antibody	BRSK2 expressed in insect cells specifically phosphorylates WEE1A, CDC25C, and CDC25B in an in vitro assay, but a kinase-dead mutant does not. Overexpression of BRSK2 in HeLa cells results in increased phosphorylation of CDC25C. DNA damage induced by ultraviolet (UV) irradiation or methyl methane sulfonate, but not by ionizing radiation, enhances endogenous BRSK2 kinase activity in a caffeine-sensitive manner and causes translocation of BRSK2 from the cytoplasm to the nucleus. Overexpression of BRSK2 induces G2/M arrest in HeLa cells. Small interfering RNA against BRSK2 partly abrogates UV-induced G2/M arrest. BRSK2 may act as a checkpoint kinase upon DNA damage induced by UV irradiation or methyl methane sulfonate.
Product Categories/Family for anti-BRSK2 antibody	Immunology; Neuroscience
References	J. Biol. Chem. 279: 31164-31170, 2004. J. Hum. Genet. 44:1-9(1999). J. Hum. Genet. 43: 283-284, 1998.

NCBI AND UNIPROT INFORMATION

NCBI GI #	375298744
NCBI GeneID	9024
NCBI Accession #	NP_001243556.1; NP_001243558.1; NP_001243559.1; NP_003948.2
NCBI GenBank Nucleotide #	NM_001256627.1
UniProt Accession #	Q8IWK3; O60843; O95099; Q5J5B4; Q6ZMQ4; Q8TB60; B3KVE9; E9PLM7
Molecular Weight	81633
NCBI Official Full Name	serine/threonine-protein kinase BRSK2 isoform 1
NCBI Official Synonym Full Names	BR serine/threonine kinase 2
NCBI Official Symbol	BRSK2
NCBI Official Synonym Symbols	SAD1; SADA; STK29; PEN11B; C11orf7
NCBI Protein Information	serine/threonine-protein kinase BRSK2
UniProt Protein Name	Serine/threonine-protein kinase BRSK2
UniProt Gene Name	BRSK2
UniProt Synonym Gene Names	C11orf7; PEN11B; SADA; STK29; BR serine/threonine-protein kinase 2
UniProt Entry Name	BRSK2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.