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

STK33 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14947a

Product Information

Application	WB, E
Primary Accession	Q9BYT3
Other Accession	NP_112168.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB34374
Calculated MW	57831
Antigen Region	39-68

Additional Information

Gene ID	65975
Other Names	Serine/threonine-protein kinase 33, STK33
Target/Specificity	This STK33 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 39-68 amino acids from the N-terminal region of human STK33.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	STK33 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	STK33 {ECO:0000303|PubMed:34155512}
Function	Serine/threonine protein kinase required for spermatid differentiation and male fertility (PubMed:37146716, PubMed:38781365). Promotes sperm flagella assembly during spermatogenesis by mediating phosphorylation of fibrous sheath proteins AKAP3 and AKAP4 (By similarity). Also phosphorylates

	vimentin/VIM, thereby regulating the dynamic behavior of the intermediate filament cytoskeleton (By similarity).
Cellular Location	Cytoplasm {ECO:0000250|UniProtKB:Q924X7}. Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:Q924X7}. Cytoplasm, perinuclear region {ECO:0000250|UniProtKB:Q924X7}. Note=Colocalizes with the caudal end of the manchette, a transient structure that guides tail elongation in elongating spermatids {ECO:0000250|UniProtKB:Q924X7}
Tissue Location	Highly expressed in testis, fetal lung and heart, followed by pituitary gland, kidney, interventricular septum, pancreas, heart, trachea, thyroid gland and uterus. Weak hybridization signals were observed in the following tissues: amygdala, aorta, esophagus, colon ascending, colon transverse, skeletal muscle, spleen, peripheral blood leukocyte, lymph node, bone marrow, placenta, prostate, liver, salivary gland, mammary gland, some tumor cell lines, fetal brain, fetal liver, fetal spleen and fetal thymus. No signal at all was detectable in RNA from tissues of the nervous system

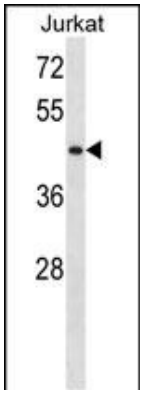
Background

Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. CaMK subfamily. Contains 1 protein kinase domain.

References

Fontaine-Bisson, B., et al. Diabetologia 53(10):2155-2162(2010)
Willer, C.J., et al. Nat. Genet. 41(1):25-34(2009)
Mujica, A.O., et al. FEBS J. 272(19):4884-4898(2005)
Mujica, A.O., et al. Gene 280 (1-2), 175-181 (2001) :
Amid, C., et al. Cytogenet. Cell Genet. 93 (3-4), 284-290 (2001) :

Images



STK33 Antibody (N-term) (Cat. #AP14947a) western blot analysis in Jurkat cell line lysates (35ug/lane).This demonstrates the STK33 antibody detected the STK33 protein (arrow).