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

Specification

STK33 Antibody (N-term) - Product Information

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

STK33 Antibody (N-term) - 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.

STK33 Antibody (N-term) - 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}

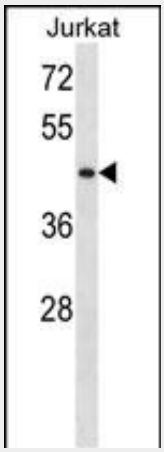
Tissue Location
Highly expressed in testis, fetal lung and heart, followed by pituitary gland, kidney, interventricular septum, pancreas, heart, trachea, thyroid gland and uterus. Weak hybridization signals were observed in the following tissues: amygdala, aorta, esophagus, colon ascending, colon transverse, 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

STK33 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

STK33 Antibody (N-term) - 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).

STK33 Antibody (N-term) - Background

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

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

STK33 Antibody (N-term) - 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) :