



Rabbit Anti-TESK2 antibody

SL12293R

Product Name:	TESK2
Chinese Name:	睾丸特异激酶2抗体
Alias:	Dual specificity testis specific protein kinase 2; Dual specificity testis-specific protein kinase 2; MGC29168; OTTHUMP0000009093; RP23-109A3.2; Tesk2; TESK2 HUMAN; Testicular protein kinase 2; Testis specific kinase 2.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	64kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from Human TESK2:301-400/571
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	?TESK2 is a nuclear protein that belongs to the protein kinase superfamily and is expressed in testis and prostate. Functioning as a dual-specificity protein kinase, TESK2 catalyzes the ATP-dependent phosphorylation of substrates and autophosphorylation on tyrosine and serine/threonine residues, thereby mediating intracellular signal transduction pathways. TESK2 requires magnesium as a cofactor and its catalytic

activity is thought to play an important role in meiotic events such as spermatogenesis. TESK2 contains one protein kinase domain that is 65% identical to the kinase domain found in TESK1 (testicular protein kinase 1), suggesting a similar role for these proteins in phosphorylation events. Three isoforms of TESK2 are expressed due to alternative splicing.

Function:

Dual specificity protein kinase activity catalyzing autophosphorylation and phosphorylation of exogenous substrates on both serine/threonine and tyrosine residues. Phosphorylates cofilin at 'Ser-3'. May play an important role in spermatogenesis.

Subcellular Location:

Nucleus.

Tissue Specificity:

Predominantly expressed in testis and prostate. Found predominantly in non-germinal Sertoli cells.

Similarity:

Belongs to the protein kinase superfamily.
TKL Ser/Thr protein kinase family.
Contains 1 protein kinase domain.

SWISS:

Q96S53

Gene ID:

10420

Database links:

[Entrez Gene: 10420](#)Human

[Entrez Gene: 230661](#)Mouse

[Entrez Gene: 170908](#)Rat

[Omim: 604746](#)Human

[SwissProt: Q96S53](#)Human

[SwissProt: Q8VCT9](#)Mouse

[SwissProt: Q924U5](#)Rat

[Unigene: 591499](#)Human

[Unigene: 482431](#)Mouse

[Unigene: 144652Rat](#)

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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