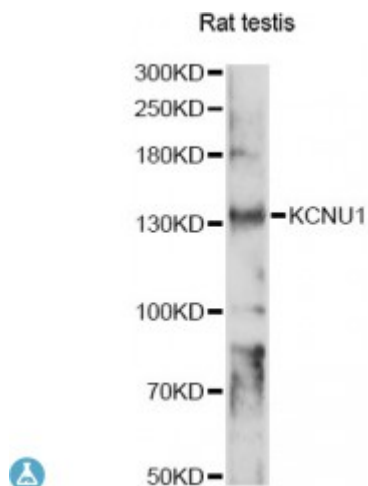


Anti-KCNU1 Antibody



Description

This gene encodes a member of the potassium channel family of proteins. The encoded voltage-gated ion channel allows the outward flow of potassium ions during plasma membrane hyperpolarization in sperm. Opening of this channel may be regulated by calcium ion levels. Homozygous knockout mice that lack the related mouse gene exhibit male sterility. Alternative splicing results in multiple transcript variants.

Model	STJ117166
Host	Rabbit
Reactivity	Rat
Applications	WB
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 920-1149 of human KCNU1 (NP_001027006.2).
Gene ID	157855
Gene Symbol	KCNU1
Dilution range	WB 1:500 - 1:2000
Tissue Specificity	Testis-specific
Purification	Affinity purification
Note	For Research Use Only (RUO).
Protein Name	Potassium channel subfamily U member 1 Calcium-activated potassium channel subunit alpha-3 Calcium-activated potassium channel subfamily M subunit alpha-3 KCa5 Slowpoke homolog 3

Molecular Weight	129.543 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:18867OMIM:615215Reactome:R-HSA-1300642
Alternative Names	Potassium channel subfamily U member 1 Calcium-activated potassium channel subunit alpha-3 Calcium-activated potassium channel subfamily M subunit alpha-3 KCa5 Slowpoke homolog 3
Function	Testis-specific potassium channel activated by both intracellular pH and membrane voltage that mediates export of K(+), May represent the primary spermatozoan K(+) current, In contrast to KCNMA1/SLO1, it is not activated by Ca(2+) or Mg(2+), Critical for fertility, May play an important role in sperm osmoregulation required for the acquisition of normal morphology and motility when faced with osmotic challenges, such as those experienced after mixing with seminal fluid and entry into the vagina,
Cellular Localization	Cell membrane

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