

LRGUK Rabbit pAb

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Catalog # AP57059

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q96M69
Reactivity	Mouse
Predicted	Rat, Pig, Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	93618
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human LRGUK
Epitope Specificity	461-560/825
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	LRGUK is an 825 amino acid protein that contains a guanylate kinase-like domain, a LRRCT domain and nine LRR (leucine-rich) repeats. The gene encoding LRGUK is located on human chromosome 7, which houses over 1,000 genes and comprises nearly 5% of the human genome. Chromosome 7 has been linked to Osteogenesis imperfecta, Pendred syndrome, Lissencephaly, Citrullinemia and Shwachman-Diamond syndrome. The deletion of a portion of the q arm of chromosome 7 is associated with Williams-Beuren syndrome, a condition characterized by mild mental retardation, an unusual comfort and friendliness with strangers and an elfin appearance. Deletions of portions of the q arm of chromosome 7 are also seen in a number of myeloid disorders including cases of acute myelogenous leukemia and myelodysplasia.

Additional Information

Gene ID	136332
Other Names	Leucine-rich repeat and guanylate kinase domain-containing protein, LRGUK
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

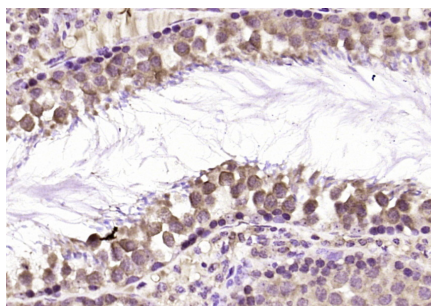
Protein Information

Name	LRGUK
Function	Involved in multiple aspects of sperm assembly including acrosome attachment, shaping of the sperm head and in the early aspects of axoneme development. Not essential for primary cilium biogenesis.
Cellular Location	Cytoplasmic vesicle, secretory vesicle, acrosome {ECO:0000250 UniProtKB:Q9D5S7}. Cytoplasm, cytoskeleton {ECO:0000250 UniProtKB:Q9D5S7}. Cytoplasm, cytoskeleton, cilium basal body {ECO:0000250 UniProtKB:Q9D5S7}. Note=Localizes to the acrosome and acroplaxome in round spermatids. Localizes to the manchette during spermiogenesis. Also found in the basal body of elongating spermatids, and in primary cilia of somatic cells. {ECO:0000250 UniProtKB:Q9D5S7}

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Images



Paraformaldehyde-fixed, paraffin embedded (mouse testis); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (LRGUK) Polyclonal Antibody, Unconjugated (AP57059) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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