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

CEP78 Rabbit pAb

Catalog # AP100268

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q5JTW2
Other Accession	Q5JTW2
Reactivity	Human
Predicted	Rat, Pig, Mouse, Rabbit, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	76396
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CEP78
Epitope Specificity	151-250/689
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the CEP78 family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	CEP78 belongs to the CEP78 family and contains 3 LRR (leucine rich) repeats.

Additional Information

Gene ID	84131
Other Names	C9orf81; CRDHL; IP63; CEP78_HUMAN; CEP78; centrosomal protein 78; chromosome 9 open reading frame 81; centrosomal protein 78kDa
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	CEP78 {ECO:0000303|PubMed:27588451, ECO:0000312|HGNC:HGNC:25740}
Function	Centriole wall protein that localizes to mature centrioles and regulates centriole and cilia biogenesis (PubMed:27246242, PubMed:27588451, PubMed:28242748, PubMed:34259627). Involved in centrosome duplication: required for efficient PLK4 centrosomal localization and PLK4-induced

	overduplication of centrioles (PubMed:27246242). Involved in cilium biogenesis and controls cilium length (PubMed:27588451). Acts as a regulator of protein stability by preventing ubiquitination of centrosomal proteins, such as CCP110 and tektins (PubMed:28242748, PubMed:34259627). Associates with the EDVP complex, preventing ubiquitination and degradation of CCP110 (PubMed:28242748, PubMed:34259627). Promotes deubiquitination of tektin proteins (TEKT1, TEKT2, TEK3, TEKT4 and TEKT5) via its interaction with USP16 (By similarity).
Cellular Location	Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriole. Cytoplasm, cytoskeleton, cilium basal body Note=Mainly localizes at the centriolar wall, but also found in the pericentriolar material (PubMed:27246242). Expressed in photoreceptor inner segment (PubMed:27588452).
Tissue Location	Widely expressed (PubMed:27588451, PubMed:27588452). Expressed in different retinal cell types with higher expression in cone compared to rod cells (at protein level) (PubMed:27588452).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.