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

C9orf75 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP55956

Product Information

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q4KMQ1
Reactivity	Rat, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	75556

Additional Information

Gene ID	286262
Other Names	Taperin, TPRN, C9orf75
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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	TPRN
Synonyms	C9orf75
Function	Essential for hearing (By similarity). Required for maintenance of stereocilia on both inner and outer hair cells (By similarity). Necessary for the integrity of the stereociliary rootlet (By similarity). May act as an actin cytoskeleton regulator involved in the regulation of actin dynamics at the pointed end in hair cells (By similarity). Forms rings at the base of stereocilia and binds actin filaments in the stereocilia which may stabilize the stereocilia (By similarity). Acts as a strong inhibitor of PPP1CA phosphatase activity (PubMed:23213405). Recruited to sites of DNA damage and may play a role in DNA damage repair (PubMed:23213405).
Cellular Location	Cell projection, stereocilium {ECO:0000250|UniProtKB:A2AI08}. Cell projection, microvillus {ECO:0000250|UniProtKB:A2AI08}. Nucleus, nucleoplasm. Cytoplasm Note=Localized prominently at the basal taper region of hair cell stereocilia (By similarity). Forms organized ring-like structures with diameters ranging from 150 to 200 nm in the stereocilium taper region (By similarity). Detected in microvilli of inner hair cell supporting

	cells (By similarity). Predominantly nuclear in non-stereocilium cells but can shuttle between the nucleus and the cytoplasm (PubMed:23213405). {ECO:0000250|UniProtKB:A2AI08, ECO:0000269|PubMed:23213405}
Tissue Location	Expression is detected in fetal cochlea.

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