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RNF98 Rabbit pAb

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Catalog # AP59163

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9NQ86
Predicted	Rat, Pig, Human, Mouse, Rabbit, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	83013
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human TRIM36/RNF98
Epitope Specificity	201-300/728
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm (By similarity). Cytoplasmic vesicle, secretory vesicle, acrosome (By similarity). Cytoplasm, cytoskeleton (By similarity). Note=Found in the acrosomal region of elongated spermatids and mature sperm (By similarity).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	TRIM36 (tripartite motif-containing 36), also known as RNF98 (RING finger protein 98), HAPRIN (haploid germ cell-specific RBCC protein) or RBCC728, is a 728 amino acid protein that belongs to the TRIM/RBCC (Ring finger, B box, coiled-coil) family. Predominantly expressed in prostate, testis and brain with weak expression in heart, kidney and lung, TRIM36 contains two B box-type zinc fingers, a SPRY domain, a coiled-coil domain, a fibronectin type-III domain and a RING-type zinc finger; a motif that has zinc-chelating activity and is involved in mediating protein-protein and protein-DNA interactions. Localizing to the cytoplasm and the acrosomal region of germ cells and mature sperm, TRIM36 is believed to play a role in the acrosome reaction and fertilization. In addition, TRIM36 is overexpressed in prostate cancer, suggesting a possible role for TRIM36 in prostate tumorigenesis.

Additional Information

Gene ID	55521
Other Names	E3 ubiquitin-protein ligase TRIM36, 2.3.2.27, Tripartite motif-containing protein 36, Zinc-binding protein Rbcc728, TRIM36, RBCC728, RNF98
Dilution	IHC-P=1:100-500,IHC-F=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	TRIM36
Synonyms	RBCC728, RNF98
Function	E3 ubiquitin-protein ligase which mediates ubiquitination and subsequent proteasomal degradation of target proteins including CTNNB1, FOXA2 and AKT1 (PubMed:35768649, PubMed:37875418, PubMed:41323265). Involved in chromosome segregation and cell cycle regulation (PubMed:28087737). May play a role in the acrosome reaction and fertilization. Inhibits lung fibroblast proliferation, migration, and differentiation. Mechanistically, mediates 'Lys-48'-linked polyubiquitination of phospho-AKT1, leading to its proteasomal degradation and consequent inhibition of AKT signaling (PubMed:41323265). Promotes apoptosis via inhibition of the Wnt/beta- catenin signaling pathway (PubMed:35768649). Regulates ferroptosis by ubiquitinating and degrading FOXA2 (PubMed:37875418).
Cellular Location	Cytoplasm. Cytoplasmic vesicle, secretory vesicle, acrosome {ECO:0000250|UniProtKB:Q80WG7}. Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:Q80WG7}. Note=Found in the acrosomal region of elongated spermatids and mature sperm. {ECO:0000250|UniProtKB:Q80WG7}
Tissue Location	Highly expressed in testis, prostate and brain (PubMed:15145053). Weakly expressed in kidney, lung and heart (PubMed:15145053). Expressed in fetal tissues (PubMed:28087737)

Background

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