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FEM 1B Rabbit pAb

Catalog # AP97248

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q9UK73
Other Accession	Q9UK73
Reactivity	Rat
Predicted	Human, Mouse, Rabbit, Chicken, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	70264
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human FEM 1B
Epitope Specificity	531-627/627
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 fem-1 family.Contains 8 ANK repeats.Contains 1 TPR repeat.
SUBUNIT	Homooligomer. Component of a probable ECS E3 ubiquitin-protein ligase complex containing CUL2, RBX1, TCEB1, TCEB2 and FEM1B. Interacts with PPM1F and PHTF1. Interacts with the death domain of FAS/TNFRSF6 and TNFRSF1A. Interacts with CHEK1.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes an ankyrin repeat protein that belongs to the death receptor-associated family of proteins and plays a role in mediating apoptosis. The encoded protein is also thought to function in the replication stress-induced checkpoint signaling pathway via interaction with checkpoint kinase 1. [provided by RefSeq, Aug 2013]

Additional Information

Gene ID	10116
Other Names	F1A-ALPHA; F1AA; FEM1-beta; NEDBES; mKIAA0396; FEM1B_CHICK; FEM1B; FEM1B_HUMAN; Fem-1-like death receptor-binding protein alpha; Fem-1-like in apoptotic pathway protein alpha (F1A-alpha); KIAA0396; FEM1B_MOUSE; mt-Fem; FEM1B_RAT; fem-1 homolog B; FEM-1 (C. elegans) homolog b; fem-1 homolog b (C. elegans)
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	FEM1B {ECO:0000303|PubMed:10623617, ECO:0000312|HGNC:HGNC:3649}
Function	Substrate-recognition component of a Cul2-RING (CRL2) E3 ubiquitin-protein ligase complex of the DesCEND (destruction via C-end degrons) pathway, which recognizes a C-degron located at the extreme C terminus of target proteins, leading to their ubiquitination and degradation (PubMed:29779948, PubMed:33398168, PubMed:33398170). The C- degron recognized by the DesCEND pathway is usually a motif of less than ten residues and can be present in full-length proteins, truncated proteins or proteolytically cleaved forms (PubMed:29779948, PubMed:33398168, PubMed:33398170). The CRL2(FEM1B) complex specifically recognizes proteins ending with -Gly-Leu-Asp-Arg, such as CDK5R1, leading to their ubiquitination and degradation (PubMed:33398168, PubMed:33398170). Also acts as a regulator of the reductive stress response by mediating ubiquitination of reduced FNIP1: in response to reductive stress, the CRL2(FEM1B) complex specifically recognizes a conserved Cys degron in FNIP1 when this degron is reduced, leading to FNIP1 degradation and subsequent activation of mitochondria to recalibrate reactive oxygen species (ROS) (By similarity). Mechanistically, recognizes and binds reduced FNIP1 through two interface zinc ions, which act as a molecular glue that recruit reduced FNIP1 to FEM1B (By similarity). Promotes ubiquitination of GLI1, suppressing GLI1 transcriptional activator activity (PubMed:24076122). Promotes ubiquitination and degradation of ANKRD37 (By similarity). Promotes ubiquitination and degradation of SLBP (PubMed:28118078). Involved in apoptosis by acting as a death receptor-associated protein that mediates apoptosis (PubMed:10542291). Also involved in glucose homeostasis in pancreatic islet (By similarity). May also act as an adapter/mediator in replication stress-induced signaling that leads to the activation of CHEK1 (PubMed:19330022).
Cellular Location	Cytoplasm. Nucleus Note=In the nucleus, the protein level increased slightly after camptothecin (CPT) treatment (PubMed:19330022). Associated with chromatin (PubMed:19330022).
Tissue Location	Widely expressed (PubMed:10542291). Highly expressed in testis (PubMed:10542291). Weakly expressed in other tissues (PubMed:10542291).

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