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FEM1B antibody - middle region

Rabbit Polyclonal Antibody
Catalog # AI13598

Product Information

Application	WB
Primary Accession	Q9UK73
Other Accession	NM_015322, NP_056137
Reactivity	Human, Mouse, Rat, Rabbit, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Pig, Chicken, Dog, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	70264

Additional Information

Gene ID	10116
Alias Symbol	DKFZp451E0710, FIAA, F1A-ALPHA
Other Names	Protein fem-1 homolog B, FEM1b, FEM1-beta, Fem-1-like death receptor-binding protein alpha, Fem-1-like in apoptotic pathway protein alpha, F1A-alpha, FEM1B, F1AA, KIAA0396
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-FEM1B antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	FEM1B antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

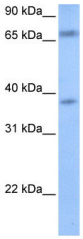
Name	FEM1B {ECO:0000303|PubMed:10623617, ECO:0000312|HGNC:HGNC:3649}
Function	Substrate-recognition component of a Cul2-RING (CRL2) E3 ubiquitin-protein ligase complex of the DesCEND (destruction via C-end degrons) pathway, which recognizes a C-degron located at the extreme C terminus of target proteins, 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).

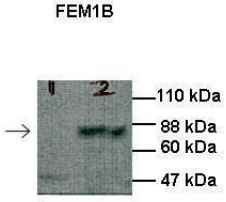
References

Chan S.-L.,et al.J. Biol. Chem. 274:32461-32468(1999).
Ventura-Holman T.,et al.Biochem. Biophys. Res. Commun. 267:317-320(2000).
Ishikawa K.,et al.DNA Res. 4:307-313(1997).
Nakajima D.,et al.DNA Res. 9:99-106(2002).
Ota T.,et al.Nat. Genet. 36:40-45(2004).

Images



WB Suggested Anti-FEM1B Antibody Titration: 0.2-1 µg/ml
Positive Control: 721_B cell lysate
FEM1B is strongly supported by BioGPS gene expression data to be expressed in Human 721_B cells



Lanes: 1: 30ug HEK293T cell lysate
, 2: 30ug 3FLAG-hFEM1B transfected HEK293T cell lysate

Primary Antibody Dilution: 1:1000
Secondary Antibody: Anti-rabbit HRP
Secondary Antibody Dilution: 1:8000
Gene Name: FEM1B

See Immunoblot 2 Data and customer Feedback for more Information