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# FEM1B antibody - C-terminal region

Rabbit Polyclonal Antibody Catalog # AI13599

#### **Product Information**

Application WB
Primary Accession Q9UK73

Other Accession <u>NM 015322, NP 056137</u>

**Reactivity** Human, Mouse, Rat, Rabbit, Dog, Guinea Pig, Horse, Bovine

**Predicted** Human, Mouse, Rat, Rabbit, Pig, 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 - C-terminal 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).

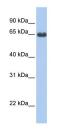
**Tissue Location** 

Widely expressed (PubMed:10542291). Highly expressed in testis (PubMed:10542291). Weakly expressed in other tissues (PubMed:10542291).

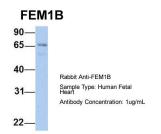
#### References

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: Human Lung



Host:Rabbit Target Name:FEM1B Sample Tissue:Human Fetal Heart Antibody Dilution: 1.0µg/ml Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.