

**FBXL5 antibody - middle region**  
**Rabbit Polyclonal Antibody**  
**Catalog # AI12220****Specification**

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**FBXL5 antibody - middle region - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">O9UKA1</a>
Other Accession	<a href="#">NM_033535</a> , <a href="#">NP_277077</a>
Reactivity	<b>Human, Mouse, Rat, Rabbit, Horse, Bovine, Guinea Pig, Dog</b>
Predicted	<b>Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Dog</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>63kDa KDa</b>

**FBXL5 antibody - middle region - Additional Information****Gene ID** 26234**Alias Symbol** **FBL4, FBL5, FLR1****Other Names**

F-box/LRR-repeat protein 5, F-box and leucine-rich repeat protein 5, F-box protein FBL4/FBL5, p45SKP2-like protein, FBXL5, FBL4, FBL5, FLR1

**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-FBXL5 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**

FBXL5 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

**FBXL5 antibody - middle region - Protein Information****Name** FBXL5**Synonyms** FBL4, FBL5, FLR1**Function**

Component of some SCF (SKP1-cullin-F-box) protein ligase complex that plays a central role in iron homeostasis by promoting the ubiquitination and subsequent degradation of IREB2/IRP2 (PubMed:&lt;a href="http://www.uniprot.org/citations/19762596" target="\_blank"&gt;19762596&lt;/a&gt;, PubMed:&lt;a href="http://www.uniprot.org/citations/19762597" target="\_blank"&gt;19762597&lt;/a&gt;).

The C-terminal domain of FBXL5 contains a redox-sensitive [2Fe-2S] cluster that, upon oxidation, promotes binding to IRP2 to effect its oxygen-dependent degradation (PubMed:<a href="http://www.uniprot.org/citations/32126207" target="\_blank">32126207</a>). Under iron deficiency conditions, the N-terminal hemerythrin-like (Hr) region, which contains a diiron metal center, cannot bind iron and undergoes conformational changes that destabilize the FBXL5 protein and cause its ubiquitination and degradation (PubMed:<a href="http://www.uniprot.org/citations/19762596" target="\_blank">19762596</a>, PubMed:<a href="http://www.uniprot.org/citations/19762597" target="\_blank">19762597</a>). When intracellular iron levels start rising, the Hr region is stabilized (PubMed:<a href="http://www.uniprot.org/citations/19762596" target="\_blank">19762596</a>, PubMed:<a href="http://www.uniprot.org/citations/19762597" target="\_blank">19762597</a>). Additional increases in iron levels facilitate the assembly and incorporation of a redox active [2Fe-2S] cluster in the C-terminal domain (PubMed:<a href="http://www.uniprot.org/citations/32126207" target="\_blank">32126207</a>). Only when oxygen level is high enough to maintain the cluster in its oxidized state can FBXL5 recruit IRP2 as a substrate for polyubiquitination and degradation (PubMed:<a href="http://www.uniprot.org/citations/32126207" target="\_blank">32126207</a>). Promotes ubiquitination and subsequent degradation of the dynactin complex component DCTN1 (PubMed:<a href="http://www.uniprot.org/citations/17532294" target="\_blank">17532294</a>). Within the nucleus, promotes the ubiquitination of SNAI1; preventing its interaction with DNA and promoting its degradation (PubMed:<a href="http://www.uniprot.org/citations/24157836" target="\_blank">24157836</a>). Negatively regulates DNA damage response by mediating the ubiquitin- proteasome degradation of the DNA repair protein NABP2 (PubMed:<a href="http://www.uniprot.org/citations/25249620" target="\_blank">25249620</a>).

#### Cellular Location

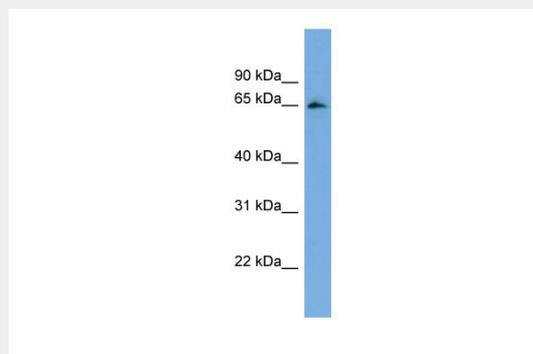
Cytoplasm, perinuclear region. Nucleus

#### FBXL5 antibody - middle region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### FBXL5 antibody - middle region - Images



WB Suggested Anti-FBXL5 Antibody Titration: 0.2-1 µg/ml

Positive Control: THP-1 cell lysate