

### FAM175B Antibody (Center) Blocking Peptide

Synthetic peptide Catalog # BP8812c

### **Specification**

## FAM175B Antibody (Center) Blocking Peptide - Product Information

Primary Accession

**Q15018** 

## FAM175B Antibody (Center) Blocking Peptide - Additional Information

**Gene ID 23172** 

#### **Other Names**

BRISC complex subunit Abro1, Abraxas brother protein 1, Protein FAM175B, FAM175B, ABRO1, KIAA0157

# **Target/Specificity**

The synthetic peptide sequence used to generate the antibody <a href=/products/AP8812c>AP8812c</a> was selected from the Center region of human FAM175B. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

#### **Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

#### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

#### **Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

### FAM175B Antibody (Center) Blocking Peptide - Protein Information

#### Name ABRAXAS2 (HGNC:28975)

## **Function**

Component of the BRISC complex, a multiprotein complex that specifically cleaves 'Lys-63'-linked polyubiquitin, leaving the last ubiquitin chain attached to its substrates (PubMed:<a href="http://www.uniprot.org/citations/19214193" target="\_blank">19214193</a>, PubMed:<a href="http://www.uniprot.org/citations/20032457" target="\_blank">20032457</a>, PubMed:<a href="http://www.uniprot.org/citations/20656690" target="\_blank">20656690</a>, PubMed:<a href="http://www.uniprot.org/citations/24075985" target="\_blank">24075985</a>). May act as a central scaffold protein that assembles the various components of the BRISC complex and retains them in the cytoplasm (PubMed:<a href="http://www.uniprot.org/citations/20656690" target="\_blank">20656690</a>). Plays a role in regulating the onset of apoptosis via its role in modulating 'Lys-63'-linked ubiquitination of target proteins (By similarity). Required for normal mitotic spindle assembly and microtubule attachment to kinetochores via its role in



deubiquitinating NUMA1 (PubMed:<a href="http://www.uniprot.org/citations/26195665" target="\_blank">26195665</a>). Plays a role in interferon signaling via its role in the deubiquitination of the interferon receptor IFNAR1; deubiquitination increases IFNAR1 activities by enhancing its stability and cell surface expression (PubMed:<a

enhancing its stability and cell surface expression (PubMed:<a href="http://www.uniprot.org/citations/24075985" target="\_blank">24075985</a>, PubMed:<a href="http://www.uniprot.org/citations/26344097" target="\_blank">26344097</a>). Down-regulates the response to bacterial lipopolysaccharide (LPS) via its role in IFNAR1 deubiquitination (PubMed:<a href="http://www.uniprot.org/citations/24075985" target="\_blank">24075985</a>). Required for normal induction of p53/TP53 in response to DNA damage (PubMed:<a href="http://www.uniprot.org/citations/25283148" target="\_blank">25283148</a>). Independent of the BRISC complex, promotes interaction between USP7 and p53/TP53, and thereby promotes deubiquitination of p53/TP53, preventing its degradation and resulting in increased p53/TP53-mediated transcription regulation and p53/TP53-dependent apoptosis in response to DNA damage (PubMed:<a href="http://www.uniprot.org/citations/25283148" target="\_blank">25283148" target="\_blank">25283148</a>).

#### **Cellular Location**

Cytoplasm. Nucleus. Cytoplasm, cytoskeleton, spindle pole. Cytoplasm, cytoskeleton. Note=A minor proportion is detected in the nucleus (PubMed:21282113, PubMed:22974638). Translocates into the nucleus in response to DNA damage (PubMed:25283148). Directly binds to microtubules and is detected at the minus end of K-fibers (PubMed:26195665). Co-localizes with NUMA1 at mitotic spindle poles (PubMed:26195665).

#### **Tissue Location**

Detected in heart muscle (at protein level). Detected in heart and muscle, and at much lower levels in brain (PubMed:21195082).

## FAM175B Antibody (Center) Blocking Peptide - Protocols

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

### • Blocking Peptides

FAM175B Antibody (Center) Blocking Peptide - Images

## FAM175B Antibody (Center) Blocking Peptide - Background

Component of the BRISC complex, a multiprotein complex that specifically cleaves 'Lys-63'-linked ubiquitin. It may act as a central scaffold protein that assembles the various components of the BRISC complex.

# FAM175B Antibody (Center) Blocking Peptide - References

Colland, F., et.al., Genome Res. 14 (7), 1324-1332 (2004)