

FAM175B Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP55707

Specification

FAM175B Polyclonal Antibody - Product Information

Application IHC-P, IHC-F, IF, ICC, E

Primary Accession <u>Q15018</u>

Reactivity Rat, Pig, Bovine

Host Rabbit
Clonality Polyclonal
Calculated MW 67 KDa
Physical State Liquid

Immunogen KLH conjugated synthetic peptide derived

from human FAM175B

Epitope Specificity 41-140/415

lsotype lgG

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 FAM175 family. Abro1

subfamily.

SUBUNIT Component of the BRISC complex, at least

composed of the FAM175B/ABRO1, BRCC3/BRCC36, BRE/BRCC45 and BABAM1/NBA1. Does not interact with

BRCA1. Binds polyubiquitin.

Important Note This product as supplied is intended for

research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

FAM175B (ABRO1) is a 415 amino acid protein, sharing 39% identity to ABRA1 in the N terminal two thirds of the protein (amino acids 1 to 260), including a coiled-coil domain and a region called the ABR domain. However, ABRO1 lacks the phosphorylated ser-X-X-phe motif of ABRA1 and, unlike ABRA1, does not bind to BRCA1.

FAM175B Polyclonal Antibody - Additional Information

Gene ID 23172

Other Names

BRISC complex subunit Abraxas 2 $\{ECO:0000312|HGNC:HGNC:28975\}$, Abraxas brother protein 1, Protein FAM175B, ABRAXAS2 (abraxas brother protein 1, Protein FAM175B, ABRAXAS2 (abraxas-2 (<a href="mailto:abraxas-

href="http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=28975"

target="_blank">HGNC:28975)

Dilution



IHC-P~~N/A<br \> <span class
="dilution_IHC-F">IHC-F~~N/A<br \> <span class
="dilution_IF">IF~~1:50~200<br \> ICC~~N/A<br \> E~~N/A

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.

FAM175B Polyclonal Antibody - 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:19214193, PubMed:20032457, PubMed:20656690, PubMed:24075985). May act as a central scaffold protein that assembles the various components of the BRISC complex and retains them in the cytoplasm (PubMed: 20656690). 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: 26195665). 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: 24075985, PubMed:26344097). Downregulates the response to bacterial lipopolysaccharide (LPS) via its role in IFNAR1 deubiquitination (PubMed:24075985). Required for normal induction of p53/TP53 in response to DNA damage (PubMed:25283148). 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: 25283148).

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 Polyclonal Antibody - Protocols

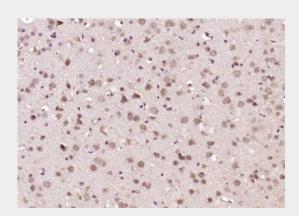




Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- <u>Immunofluorescence</u>
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

FAM175B Polyclonal Antibody - Images



Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (FAM175B) Polyclonal Antibody, Unconjugated (bs-14763R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.