abcam

Product datasheet

# Anti-FMN2 antibody ab72052

6 References 2 Images

## Overview

| | |
|---|---|
| **Product name** | Anti-FMN2 antibody |
| **Description** | Rabbit polyclonal to FMN2 |
| **Host species** | Rabbit |
| **Tested applications** | **Suitable for:** IHC-P, WB |
| **Species reactivity** | **Reacts with:** Human |
| **Immunogen** | Synthetic peptide (Human) corresponding to a region between residues 650-700 of human FMN2. (NP_064450.3). |
| **Positive control** | human brain lysate. |
| **General notes** | The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.<br>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As |

## Properties

| | |
|---|---|
| **Form** | Liquid |
| **Storage instructions** | Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. |
| **Storage buffer** | pH: 7.40<br>Preservative: 0.05% Sodium azide<br>Constituents: 0.05% BSA, PBS |
| **Purity** | Protein A purified |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab72052 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|---|---|---|
| IHC-P | | |
| WB | | |

**Application notes** WB: Use at a concentration of 0.25 - 0.5 µg/ml. Detects bands of approximately 67 and 150 kDa (predicted molecular weight: 180 kDa).

Not yet tested in other applications.
Optimal dilutions/concentrations should be determined by the end user.

## Target

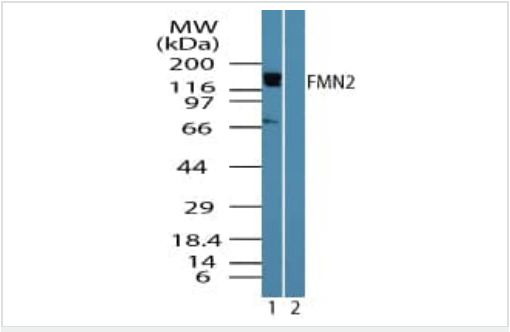
**Function** Required for asymmetric spindle positioning, asymmetric oocyte division and polar body extrusion during female germ cell meiosis (By similarity). Actin-binding protein that is involved in actin cytoskeleton assembly and reorganization. Acts as an actin nucleation factor and promotes assembly of actin filaments together with SPIRE1 and SPIRE2. Involved in intracellular vesicle transport along actin fibers, providing a novel link between actin cytoskeleton dynamics and intracellular transport. Plays a role in responses to DNA damage, cellular stress and hypoxia by protecting CDKN1A against degradation, and thereby plays a role in stress-induced cell cycle arrest. Protects cells against apoptosis by protecting CDKN1A against degradation.

**Tissue specificity** Expressed almost exclusively in the developing and mature central nervous system.

**Sequence similarities** Belongs to the formin homology family. Cappuccino subfamily.
Contains 1 FH1 (formin homology 1) domain.
Contains 1 FH2 (formin homology 2) domain.

**Cellular localization** Cytoplasm > cytoskeleton. Cytoplasm > perinuclear region. Cytoplasm > cytosol. Cell membrane. Cytoplasmic vesicle membrane. Cytoplasm > cell cortex. Nucleus > nucleolus. Recruited to the membranes via its interaction with SPIRE1. Colocalizes with the actin cytoskeleton. Detected at the cleavage furrow during asymmetric oocyte division and polar body extrusion.

## Images




Western blot - Anti-FMN2 antibody (ab72052)

**All lanes :** Anti-FMN2 antibody (ab72052) at 0.25 µg/ml

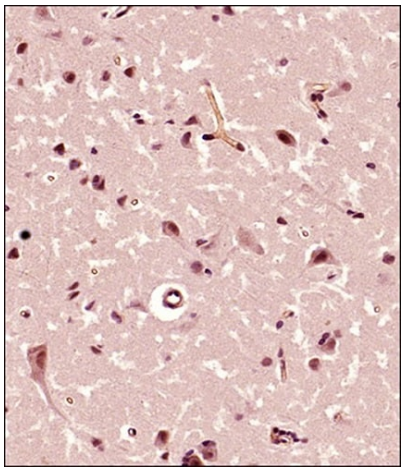
**Lane 1 :** human brain lysate

**Lane 2 :** human brain lysate with immunising peptide

**Predicted band size:** 180 kDa

**Observed band size:** 150 kDa

**Additional bands at:** 67 kDa. We are unsure as to the identity of these extra bands.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FMN2 antibody (ab72052)

Immunohistochemical analysis of formalin fixed and paraffin embedded Human brain tissue section staining FMN2 using ab72052 at 1/300 dilution. HRP- labeled was used as the secondary antibody and hematoxylin was used as a nuclei counterstain.



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