

## MID2 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP54349

## **Specification**

## **MID2 Polyclonal Antibody - Product Information**

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

Primary Accession
Reactivity
Rat, Pig, Dog
Host
Clonality
Calculated MW
Rat, Pig, Dog
Rabbit
Polyclonal
83 KDa

Physical State
Liquid
Immunogen
KLH conjugated synthetic peptide derived

from human Midline-2

Epitope Specificity 251-350/735

Isotype IgG
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 TRIM/RBCC family. Contains

2 B box-type zinc fingers. Contains 1 B30.2/SPRY domain. Contains 1 COS domain. Contains 1 fibronectin type-III domain. Contains 1 RING-type zinc finger.

SUBUNIT Homodimer or heterodimer with MID1.

Interacts with IGBP1.

residues.

Important Note

This product as supplied is intended for research use only, not for use in human,

therapeutic or diagnostic applications.

## **Background Descriptions**

Midline-2 is a 715 amino acid protein encoded by the human gene MID2. Midline-2 belongs to the TRIM/RBCC family and contains two B box-type zinc fingers, one B30.2/SPRY domain, one COS domain, one fibronectin type-III domain and one RING-type zinc finger. Midline-2 is a cytoplasmic protein found as a homodimer or heterodimer with Midline-1. It also interacts with IGBP1 (Lymphocyte signaling protein A4). Dimerization is mediated by the tripartite motif (RBCC; RING-and B box-type zinc fingers and coiled coil domains) and microtubule association is dependent on the C-terminal B30.2 domain. Midline-2 is expressed at low levels in fetal kidney and lung, and in adult prostate, ovary and small intestine.

# MID2 Polyclonal Antibody - Additional Information

Gene ID 11043

**Other Names** 



Probable E3 ubiquitin-protein ligase MID2, 2.3.2.27, Midin-2, Midline defect 2, Midline-2, RING finger protein 60, RING-type E3 ubiquitin transferase MID2, Tripartite motif-containing protein 1, MID2, FXY2, RNF60, TRIM1

## Target/Specificity

Low level in fetal kidney and lung, and in adult prostate, ovary and small intestine.

#### **Dilution**

<span class ="dilution\_IHC-P">IHC-P~~N/A</span><br \> <span class
="dilution\_IHC-F">IHC-F~~N/A</span><br \> <span class
="dilution\_IF">IF~~1:50~200</span><br \> <span class ="dilution\_ICC">ICC~~N/A</span><br \> <span class ="dilution\_E">E~~N/A</span>

### **Storage**

Store at -20  $^{\circ}$ 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  $^{\circ}$ C.

## **MID2 Polyclonal Antibody - Protein Information**

#### Name MID2

Synonyms FXY2, RNF60, TRIM1

#### **Function**

E3 ubiquitin ligase that plays a role in microtubule stabilization. Mediates the 'Lys-48'-linked polyubiquitination of LRRK2 to drive its localization to microtubules and its proteasomal degradation in neurons. This ubiquitination inhibits LRRK2 kinase activation by RAB29 (PubMed:<a href="http://www.uniprot.org/citations/35266954" target="blank">35266954</a>).

### **Cellular Location**

Cytoplasm. Cytoplasm, cytoskeleton Note=Microtubule-associated.

#### **Tissue Location**

Low level in fetal kidney and lung, and in adult prostate, ovary and small intestine

# **MID2 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>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

#### MID2 Polyclonal Antibody - Images