10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# MYLIP Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5315c

## Product Information

| | |
|---|---|
| **Application** | WB, IHC-P, FC, E |
| **Primary Accession** | Q8WY64 |
| **Other Accession** | NP_037394 |
| **Reactivity** | Human, Rat, Mouse |
| **Predicted** | Bovine, Canine, Rabbit, Chicken |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB18661 |
| **Calculated MW** | 49910 |
| **Antigen Region** | 111-139 |

## Additional Information

| | |
|---|---|
| **Gene ID** | 29116 |
| **Other Names** | E3 ubiquitin-protein ligase MYLIP, 632-, Inducible degrader of the LDL-receptor, Idol, Myosin regulatory light chain interacting protein, MIR, MYLIP, BZF1, IDOL |
| **Target/Specificity** | This MYLIP antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 111-139 amino acids from the Central region of human MYLIP. |
| **Dilution** | WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | MYLIP Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

| | |
|---|---|
| **Name** | MYLIP |

| | |
|---|---|
| **Synonyms** | BZF1, IDOL |
| **Function** | E3 ubiquitin-protein ligase that mediates ubiquitination and subsequent proteasomal degradation of myosin regulatory light chain (MRLC), LDLR, VLDLR and LRP8. Activity depends on E2 enzymes of the UBE2D family. Proteasomal degradation of MRLC leads to inhibit neurite outgrowth in presence of NGF by counteracting the stabilization of MRLC by saposin-like protein (CNPY2/MSAP) and reducing CNPY2-stimulated neurite outgrowth. Acts as a sterol-dependent inhibitor of cellular cholesterol uptake by mediating ubiquitination and subsequent degradation of LDLR. |
| **Cellular Location** | Cytoplasm. Cell membrane; Peripheral membrane protein |
| **Tissue Location** | Ubiquitously expressed. |

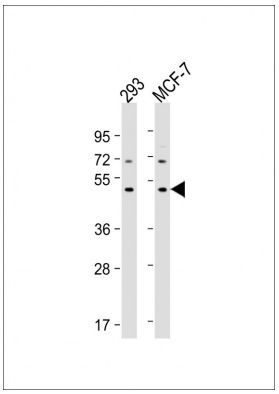
## Background

The ERM protein family members ezrin, radixin, and moesin are cytoskeletal effector proteins linking actin to membrane-bound proteins at the cell surface. Myosin regulatory light chain interacting protein (MYLIP) is a novel ERM-like protein that interacts with myosin regulatory light chain and inhibits neurite outgrowth.

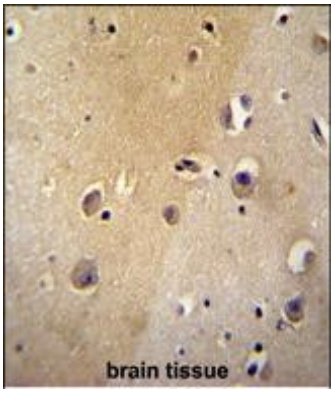
## References

Chasman, D.I., et al. PLoS Genet. 5 (11), E1000730 (2009)
Lindholm, D., et al. Cell. Mol. Life Sci. 66(21):3399-3402(2009)
Zelcer, N., et al. Science 325(5936):100-104(2009)

## Images

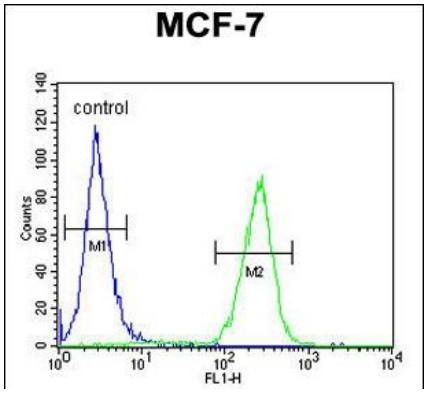



All lanes : Anti-MYLIP Antibody (Center) at 1:2000 dilution Lane 1: 293 whole cell lysate Lane 2: MCF-7 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 50 kDa Blocking/Dilution buffer: 5% NFDM/TBST.




MYLIP antibody (Center) (Cat. #AP5315c) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of the MYLIP antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

MYLIP Antibody (Center) (Cat. #AP5315c) flow cytometric analysis of MCF-7 cells (right histogram) compared to a




negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.