

Anti-Morg1 Antibody
Catalog # ABO10539**Specification**

Anti-Morg1 Antibody - Product Information

Application	WB, IHC
Primary Accession	Q9BRX9
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for WD repeat domain-containing protein 83(WDR83) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Morg1 Antibody - Additional Information

Gene ID 84292

Other Names

WD repeat domain-containing protein 83, Mitogen-activated protein kinase organizer 1, MAPK organizer 1, WDR83, MORG1

Calculated MW

34343 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Rat, Mouse, By Heat
Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse

Subcellular Localization

Cytoplasm . Nucleus . Predominantly cytoplasmic. Partially nuclear. .

Protein Name

WD repeat domain-containing protein 83

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence at the N-terminus of human Morg1(29-43aa RAVRFNVDGNYCLTC), identical to the related mouse and rat sequences.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the WD repeat MORG1 family.

Anti-Morg1 Antibody - Protein Information

Name WDR83

Synonyms MORG1

Function

Molecular scaffold protein for various multimeric protein complexes. Acts as a module in the assembly of a multicomponent scaffold for the ERK pathway, linking ERK responses to specific agonists. At low concentrations it enhances ERK activation, whereas high concentrations lead to the inhibition of ERK activation. Also involved in response to hypoxia by acting as a negative regulator of HIF1A/HIF-1-alpha via its interaction with EGLN3/PHD3. May promote degradation of HIF1A. May act by recruiting signaling complexes to a specific upstream activator (By similarity). May also be involved in pre-mRNA splicing.

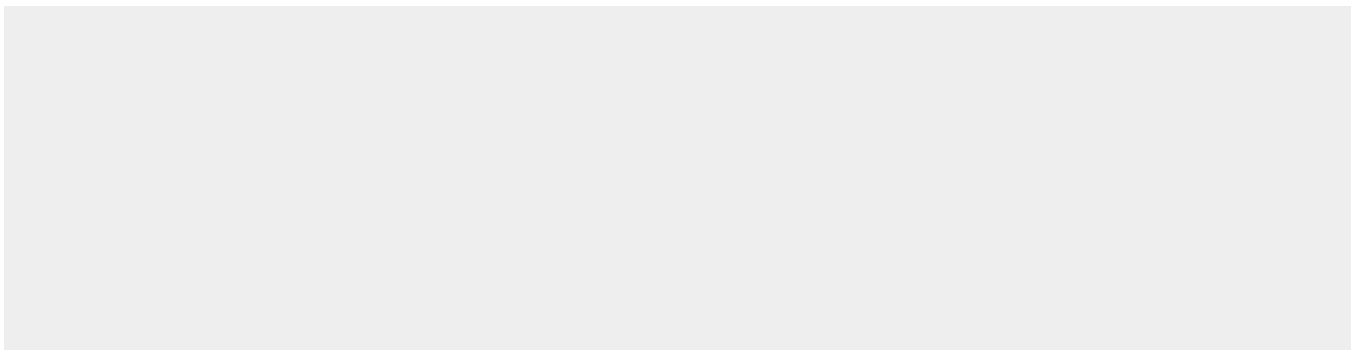
Cellular Location

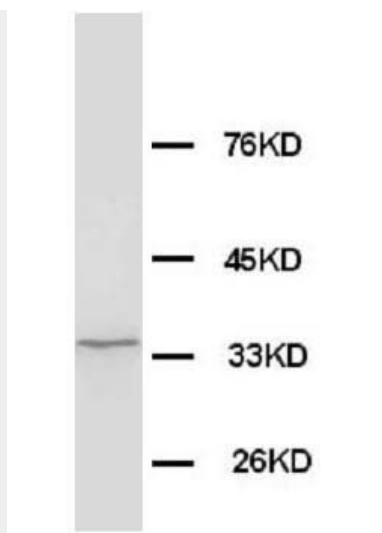
Cytoplasm. Nucleus. Note=Predominantly cytoplasmic. Partially nuclear.

Anti-Morg1 Antibody - Protocols

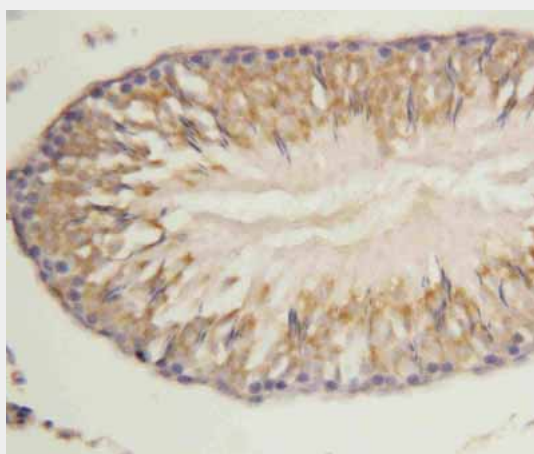
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Morg1 Antibody - Images



Anti-Morg1 antibody, ABO10539, Western blottingWB: Rat Brain Tissue Lysate



Anti-Morg1 antibody, ABO10539, IHC(P)IHC(P): Rat Lung Tissue

Anti-Morg1 Antibody - Background

MORG1(mitogen-activated protein kinase organizer 1), a member of the WD-40 protein family that was isolated as a binding partner of the extracellular signal-regulated kinase(ERK) pathway scaffold protein MP1. MORG1 specifically associates with several components of the ERK pathway, including MP1, Raf-1, MEK, and ERK, and stabilizes their assembly into an oligomeric complex. MORG1 facilitates ERK activation when cells are stimulated with lysophosphatidic acid, phorbol 12-myristate 13-acetate, or serum, but not in response to epidermal growth factor. Suppression of MORG1 by short interfering RNA leads to a marked reduction in ERK activity when cells are stimulated with serum. MORG1 is a component of a modular scaffold system that participates in the regulation of agonist-specific ERK signaling.