

MAPK Organizer 1 Polyclonal Antibody
Catalog # AP73628**Specification****MAPK Organizer 1 Polyclonal Antibody - Product Information**

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

MAPK Organizer 1 Polyclonal Antibody - Additional Information**Gene ID** 84292**Other Names**

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

Dilution

WB~~Western Blot: 1/500 - 1/2000. IHC-p: 1/100-1/300. ELISA: 1/20000. Not yet tested in other applications.

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

MAPK Organizer 1 Polyclonal 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. Participates in tight junction development by regulating apico-basal polarity, a key step in tissue development and organization. Mechanistically, regulates the translocation of PAR6-aPKC from the cytoplasm to the apical surface by acting as an adapter between PARD6B AND CRB3 (PubMed:23439680). Acts also as a negative regulator of mTORC1 under nutrient-rich conditions by binding to the active Rag

GTPases to inhibit mTORC1 localization to the lysosome and phosphorylation of downstream targets. This facilitates constitutive basal autophagy during nutrient availability (PubMed:38103557).

Cellular Location

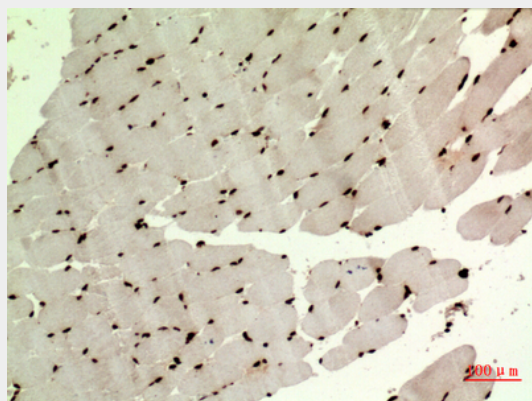
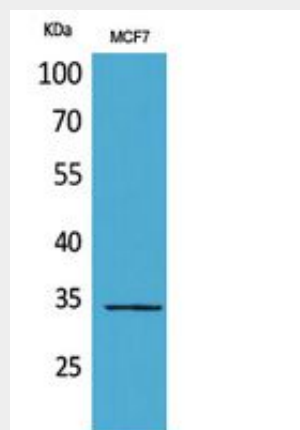
Cytoplasm. Lysosome. Nucleus Note=Predominantly cytoplasmic. Partially nuclear.

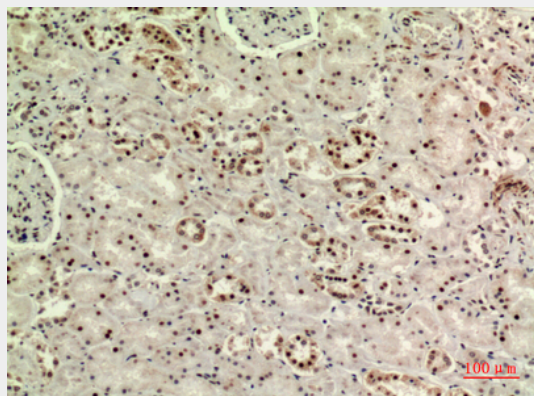
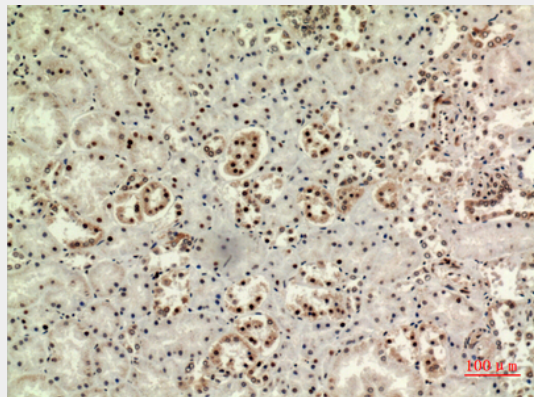
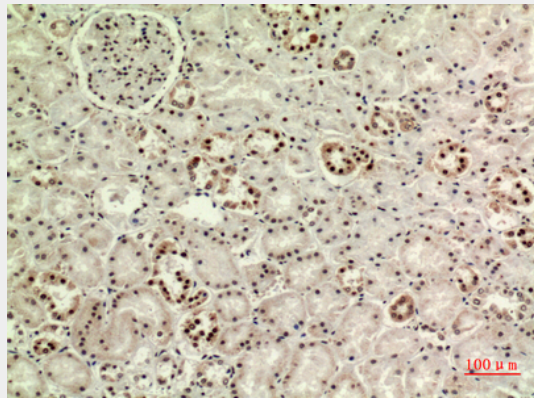
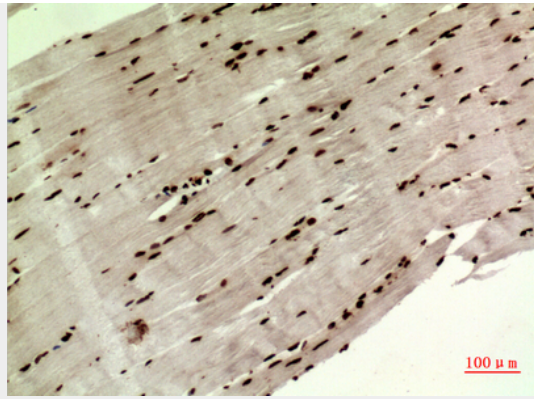
MAPK Organizer 1 Polyclonal Antibody - Protocols

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](#)

MAPK Organizer 1 Polyclonal Antibody - Images





MAPK Organizer 1 Polyclonal Antibody - Background

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.