

**DIAPH1 Antibody (monoclonal) (M01)****Mouse monoclonal antibody raised against a partial recombinant DIAPH1.****Catalog # AT1764a****Specification**

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**DIAPH1 Antibody (monoclonal) (M01) - Product Information**

Application	WB, E
Primary Accession	<a href="#">O60610</a>
Other Accession	<a href="#">NM_005219</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2b Kappa
Calculated MW	141347

**DIAPH1 Antibody (monoclonal) (M01) - Additional Information****Gene ID** 1729**Other Names**

Protein diaphanous homolog 1, Diaphanous-related formin-1, DRF1, DIAPH1, DIAP1

**Target/Specificity**

DIAPH1 (NP\_005210, 921 a.a. ~ 1024 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Dilution**

WB~~1:500~1000

E~~N/A

**Format**

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

**Storage**

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

**Precautions**

DIAPH1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

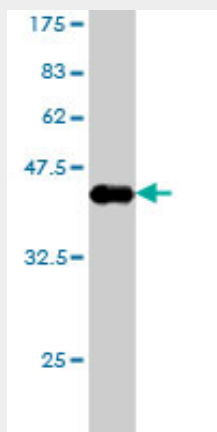
**DIAPH1 Antibody (monoclonal) (M01) - Protocols**

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

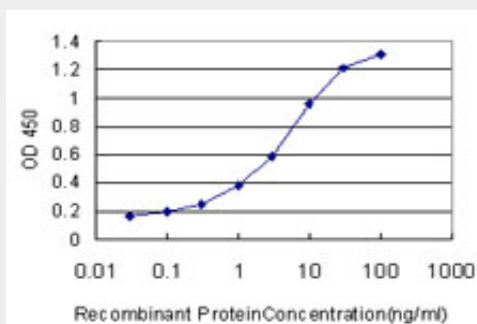
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### DIAPH1 Antibody (monoclonal) (M01) - Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.18 kDa) .



Detection limit for recombinant GST tagged DIAPH1 is approximately 0.1 ng/ml as a capture antibody.

### DIAPH1 Antibody (monoclonal) (M01) - Background

This gene is a homolog of the Drosophila diaphanous gene, and has been linked to autosomal dominant, fully penetrant, nonsyndromic sensorineural progressive low-frequency hearing loss. Actin polymerization involves proteins known to interact with diaphanous protein in Drosophila and mouse. It has therefore been speculated that this gene may have a role in the regulation of actin polymerization in hair cells of the inner ear. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene.

### DIAPH1 Antibody (monoclonal) (M01) - References

Flightless-I (Fli-I) regulates the actin assembly activity of diaphanous-related formins (DRFs) Daam1 and mDia1 in cooperation with active Rho GTPase. Higashi T, et al. J Biol Chem, 2010 May 21. PMID 20223827. Force-induced myofibroblast differentiation through collagen receptors is dependent on mammalian diaphanous (mDia). Chan MW, et al. J Biol Chem, 2010 Mar 19. PMID 20071339. Distinct roles for the actin nucleators Arp2/3 and hDia1 during NK-mediated cytotoxicity. Butler B, et al. Curr Biol, 2009 Dec 1. PMID 19913427. RhoA effector mDia1 is required for PI 3-kinase-dependent actin remodeling and spreading by thrombin in platelets. Gao G, et al. Biochem Biophys Res Commun,

2009 Jul 31. PMID 19470376. Coeliac disease-associated risk variants in TNFAIP3 and REL implicate altered NF-kappaB signalling. Trynka G, et al. Gut, 2009 Aug. PMID 19240061.