

DIAPH1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant DIAPH1.

Catalog # AT1764a

Specification

DIAPH1 Antibody (monoclonal) (M01) - Product Information

Application	WB, E
Primary Accession	O60610
Other Accession	NM_005219
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

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.

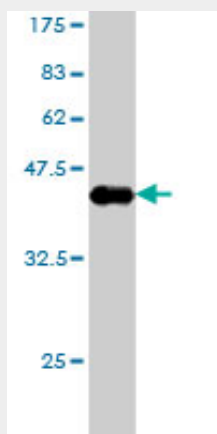
DIAPH1 Antibody (monoclonal) (M01) - Protocols

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

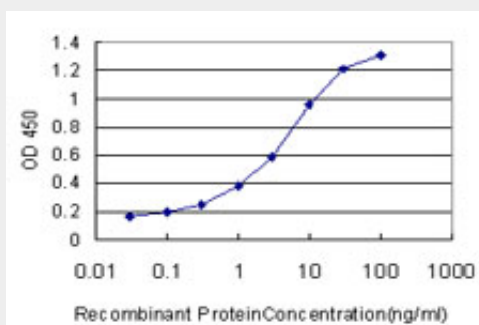
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [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.