

ESD Antibody (monoclonal) (M01)
Mouse monoclonal antibody raised against a partial recombinant ESD.
Catalog # AT1948a

Specification

ESD Antibody (monoclonal) (M01) - Product Information

Application	WB, E
Primary Accession	P10768
Other Accession	NM_001984
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	31463

ESD Antibody (monoclonal) (M01) - Additional Information

Gene ID 2098

Other Names

S-formylglutathione hydrolase, FGH, Esterase D, Methylumbelliferyl-acetate deacetylase, ESD

Target/Specificity

ESD (NP_001975.1, 183 a.a. ~ 281 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

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

ESD Antibody (monoclonal) (M01) - Protocols

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

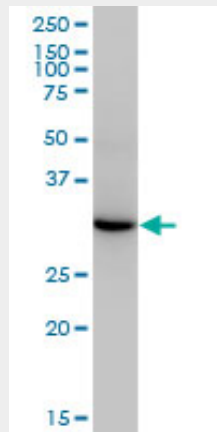
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

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

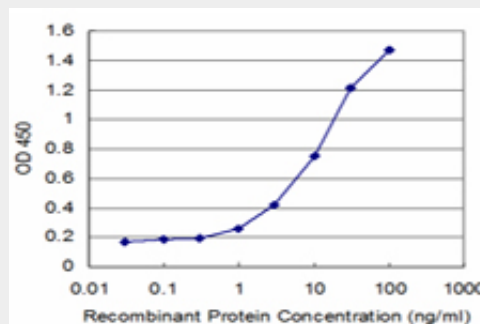
ESD Antibody (monoclonal) (M01) - Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.63 kDa) .



ESD monoclonal antibody (M01), clone 1E1. Western Blot analysis of ESD expression in Jurkat (Cat # AT1948a)



Detection limit for recombinant GST tagged ESD is approximately 1ng/ml as a capture antibody.

ESD Antibody (monoclonal) (M01) - Background

This gene encodes a serine hydrolase that belongs to the esterase D family. The encoded enzyme

is active toward numerous substrates including O-acetylated sialic acids, and it may be involved in the recycling of sialic acids. This gene is used as a genetic marker for retinoblastoma and Wilson's disease.

ESD Antibody (monoclonal) (M01) - References

Association study between single-nucleotide polymorphisms in 199 drug-related genes and commonly measured quantitative traits of 752 healthy Japanese subjects. Saito A, et al. *J Hum Genet*, 2009 Jun. PMID 19343046. Crystal structure of human esterase D: a potential genetic marker of retinoblastoma. Wu D, et al. *FASEB J*, 2009 May. PMID 19126594. Proteomic surveillance of retinal autoantigens in endogenous uveitis: implication of esterase D and brain-type creatine kinase as novel autoantigens. Okunuki Y, et al. *Mol Vis*, 2008 Jun 12. PMID 18552983. The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. *Genome Res*, 2004 Oct. PMID 15489334. The DNA sequence and analysis of human chromosome 13. Dunham A, et al. *Nature*, 2004 Apr 1. PMID 15057823.