

DEPC-1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant DEPC-1.

Catalog # AT1755a

Specification

DEPC-1 Antibody (monoclonal) (M01) - Product Information

Application	WB, E
Primary Accession	O96Q83
Other Accession	BC015155
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 kappa
Calculated MW	33375

DEPC-1 Antibody (monoclonal) (M01) - Additional Information

Gene ID 221120

Other Names

Alpha-ketoglutarate-dependent dioxygenase alkB homolog 3, 11411-, Alkylated DNA repair protein alkB homolog 3, DEPC-1, Prostate cancer antigen 1, ALKBH3, ABH3, DEPC1

Target/Specificity

DEPC-1 (AAH15155, 1 a.a. ~ 139 a.a) full-length 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

DEPC-1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

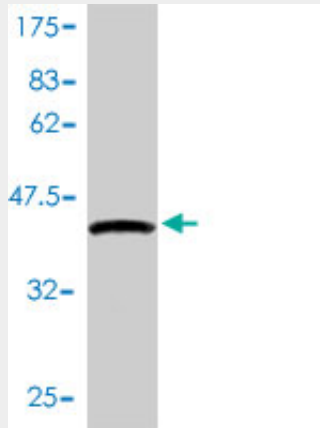
DEPC-1 Antibody (monoclonal) (M01) - Protocols

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

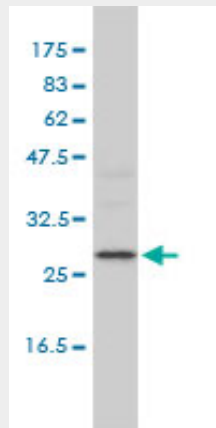
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

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

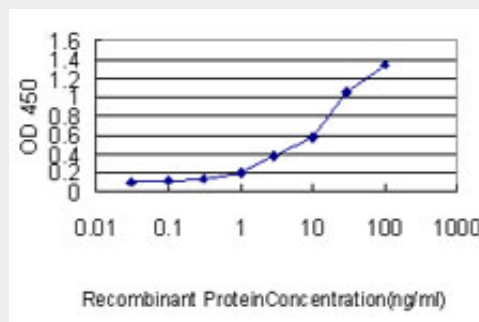
DEPC-1 Antibody (monoclonal) (M01) - Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (41.03 kDa) .



DEPC-1 monoclonal antibody (M01), clone 2A5-4F5 Western Blot analysis of DEPC-1 expression in K-562 ((Cat # AT1755a)



Detection limit for recombinant GST tagged DEPC-1 is approximately 0.03ng/ml as a capture antibody.

DEPC-1 Antibody (monoclonal) (M01) - Background

The Escherichia coli AlkB protein protects against the cytotoxicity of methylating agents by repair of the specific DNA lesions generated in single-stranded DNA. ALKBH2 (MIM 610602) and ALKBH3 are E. coli AlkB homologs that catalyze the removal of 1-methyladenine and 3-methylcytosine (Duncan et al., 2002 [PubMed 12486230]).

DEPC-1 Antibody (monoclonal) (M01) - References

Toward a confocal subcellular atlas of the human proteome. Barbe L, et al. Mol Cell Proteomics, 2008 Mar. PMID 18029348. Prostate cancer antigen-1 as a potential novel marker for prostate cancer. Liu BQ, et al. Asian J Androl, 2007 Nov. PMID 17968469. Human ABH3 structure and key residues for oxidative demethylation to reverse DNA/RNA damage. Sundheim O, et al. EMBO J, 2006 Jul 26. PMID 16858410. Diversification of transcriptional modulation: large-scale identification and characterization of putative alternative promoters of human genes. Kimura K, et al. Genome Res, 2006 Jan. PMID 16344560. Repair of methylation damage in DNA and RNA by mammalian AlkB homologues. Lee DH, et al. J Biol Chem, 2005 Nov 25. PMID 16174769.