10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

UROS Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant UROS.
Catalog # AT4475a

Specification

UROS Antibody (monoclonal) (M01) - Product Information

Application	**WB, E**
Primary Accession	P10746
Other Accession	BC002573
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG1 Kappa**
Calculated MW	**28628**

UROS Antibody (monoclonal) (M01) - Additional Information

Gene ID 7390

Other Names
Uroporphyrinogen-III synthase, UROIIIS, UROS, Hydroxymethylbilane hydrolyase [cyclizing], Uroporphyrinogen-III cosynthase, UROS

Target/Specificity
UROS (AAH02573, 1 a.a. ~ 265 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
UROS Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

UROS Antibody (monoclonal) (M01) - Protocols

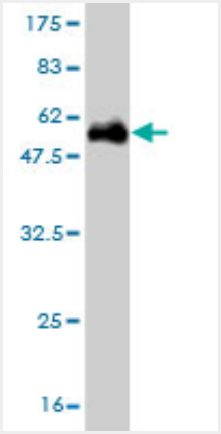
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot

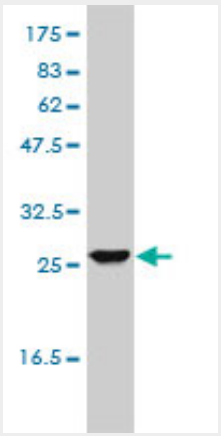
10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

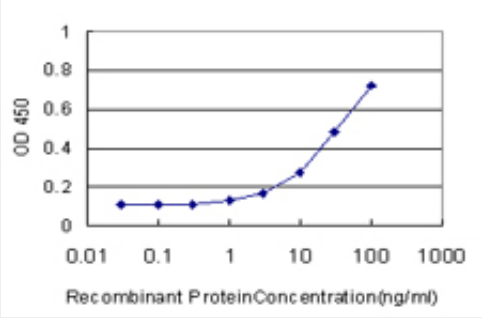
UROS Antibody (monoclonal) (M01) - Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (54.89 KDa) .



UROS monoclonal antibody (M01), clone 1E11-B11 Western Blot analysis of UROS expression in HL-60 ((Cat # AT4475a)



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

UROS Antibody (monoclonal) (M01) - Background

The protein encoded by this gene catalyzes the fourth step of porphyrin biosynthesis in the heme biosynthetic pathway. Defects in this gene cause congenital erythropoietic porphyria (Gunther's disease).

UROS Antibody (monoclonal) (M01) - References

Congenital erythropoietic porphyria: a novel uroporphyrinogen III synthase branchpoint mutation reveals underlying wild-type alternatively spliced transcripts. Bishop DF, et al. Blood, 2010 Feb 4. PMID 19965637.Uroporphyrinogen III synthase mutations related to congenital erythropoietic porphyria identify a key helix for protein stability. Fortian A, et al. Biochemistry, 2009 Jan 20. PMID 19099412.Hypoxia decreases the expression of the two enzymes responsible for producing linear and cyclic tetrapyrroles in the heme biosynthetic pathway. Vargas PD, et al. FEBS J, 2008 Dec. PMID 19021769.Human uroporphyrinogen III synthase: NMR-based mapping of the active site. Cunha L, et al. Proteins, 2008 May 1. PMID 18004775.Identification of mutations in the uroporphyrinogen III cosynthase gene in German patients with congenital erythropoietic porphyria. Wiederholt T, et al. Physiol Res, 2006. PMID 17298225.