

UROS Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant UROS.

Catalog # AT4475a

Product Information

Application	WB, E
Primary Accession	P10746
Other Accession	BC002573
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	1E11-B11
Calculated MW	28628

Additional Information

Gene ID	7390
Other Names	Uroporphyrinogen-III synthase, UROIIIIS, 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 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	UROS Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

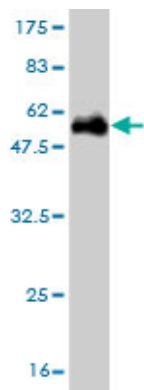
The protein encoded by this gene catalyzes the fourth step of porphyrin biosynthesis in the heme biosynthetic pathway. Defects in this gene cause congenital erythropoietic porphyria (Gunther's disease).

References

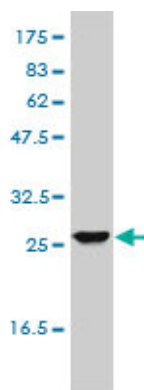
Congenital erythropoietic porphyria: a novel uroporphyrinogen III synthase branchpoint mutation reveals underlying wild-type alternatively spliced transcripts. Bishop DF, et al. Blood, 2010 Feb 4. PMID 19965637. Uroporphyrinogen III synthase mutations related to congenital erythropoietic porphyria identify 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.

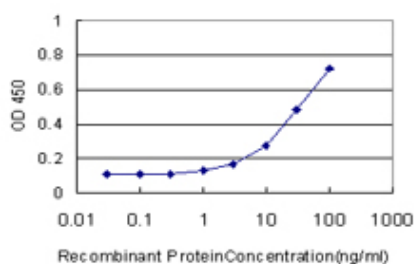
Images



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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.