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

BLVRA Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant BLVRA.
Catalog # AT1302a

Product Information

Application	WB
Primary Accession	P53004
Other Accession	BC008456
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a kappa
Clone Names	4G4-2B6
Calculated MW	33428

Additional Information

Gene ID	644
Other Names	Biliverdin reductase A, BVR A, Biliverdin-IX alpha-reductase, BLVRA, BLVR, BVR
Target/Specificity	BLVRA (AAH08456, 1 a.a. ~ 296 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	BLVRA Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

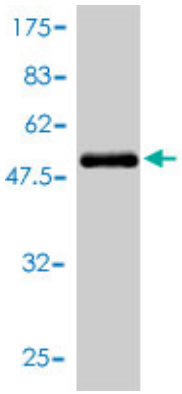
Biliverdin reductases, such as BLVRA (EC 1.3.1.24), catalyze the conversion of biliverdin to bilirubin in the presence of NADPH or NADH (Komuro et al., 1996 [PubMed 8950184]).

References

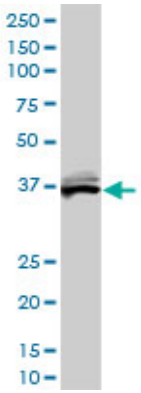
Induction of heme oxygenase-1, biliverdin reductase and H-ferritin in lung macrophage in smokers with primary spontaneous pneumothorax: role of HIF-1alpha. Goven D, et al. PLoS One, 2010 May 28. PMID 20526373.Common polymorphisms in ITGA2, PON1 and THBS2 are associated with coronary atherosclerosis in a candidate gene association study of the Chinese Han population. Wang Y, et al. J Hum Genet, 2010 Aug. PMID 20485444.Conversion of biliverdin to bilirubin by biliverdin reductase contributes to endothelial cell

protection by heme oxygenase-1-evidence for direct and indirect antioxidant actions of bilirubin. Jansen T, et al. J Mol Cell Cardiol, 2010 Aug. PMID 20430037.Human biliverdin reductase suppresses Goodpasture antigen-binding protein (GPBP) kinase activity: the reductase regulates tumor necrosis factor-alpha-NF-kappaB-dependent GPBP expression. Miralem T, et al. J Biol Chem, 2010 Apr 23. PMID 20177069.Limited role for the bilirubin-biliverdin redox amplification cycle in the cellular antioxidant protection by biliverdin reductase. Maghzal GJ, et al. J Biol Chem, 2009 Oct 23. PMID 19690164.

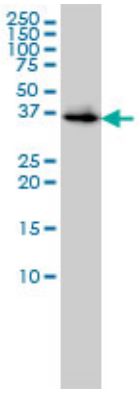
Images



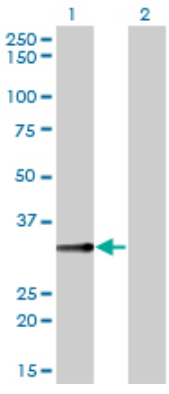
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (58.3 KDa) .



BLVRA monoclonal antibody (M01), clone 4G4-2B6. Western Blot analysis of BLVRA expression in HeLa ((Cat # AT1302a)



BLVRA monoclonal antibody (M01), clone 4G4-2B6 Western Blot analysis of BLVRA expression in 293 ((Cat # AT1302a)



Western Blot analysis of BLVRA expression in transfected 293T cell line by BLVRA monoclonal antibody (M01), clone 4G4-2B6.

Lane 1: BLVRA transfected lysate(33.4 KDa).
Lane 2: Non-transfected lysate.

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