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

VCX3A Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant VCX3A.
Catalog # AT4507a

Product Information

Application	WB, E
Primary Accession	Q9NNX9
Other Accession	NM_016379
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	6A3
Calculated MW	20020

Additional Information

Gene ID	51481
Other Names	Variable charge X-linked protein 3, Variable charge protein on X with eight repeats, VCX-8r, Variably charged protein X-A, VCX-A, VCX3A, VCX3, VCX8R, VCXA
Target/Specificity	VCX3A (NP_057463, 2 a.a. ~ 100 a.a) partial 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	VCX3A Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

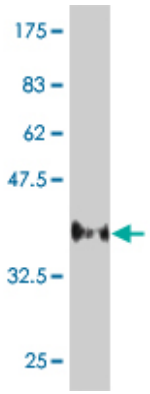
Background

This gene belongs to the VCX/Y gene family, which has multiple members on both X and Y chromosomes, and all are expressed exclusively in male germ cells. The X-linked members are clustered on chromosome Xp22 and Y-linked members are two identical copies of the gene within a palindromic region on Yq11. The family members share a high degree of sequence identity, with the exception that a 30-bp unit is tandemly repeated in X-linked members but occurs only once in Y-linked members. The VCX gene cluster is polymorphic in terms of copy number; different individuals may have a different number of VCX genes. VCX/Y genes encode small and highly charged proteins of unknown function. The presence of a putative bipartite nuclear localization signal suggests that VCX/Y members are nuclear proteins. This gene contains 8 repeats of the 30-bp unit.

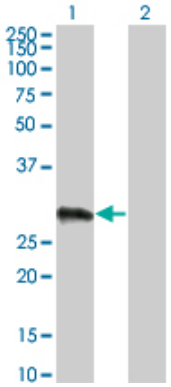
References

Modulation of neuritogenesis by a protein implicated in X-linked mental retardation. Jiao X, et al. J Neurosci, 2009 Oct 7. PMID 19812318.Analysis of the VCX3A, VCX2 and VCX3B genes shows that VCX3A gene deletion is not sufficient to result in mental retardation in X-linked ichthyosis. Cuevas-Covarrubias SA, et al. Br J Dermatol, 2008 Mar. PMID 18076704.Identification of an mRNA-decapping regulator implicated in X-linked mental retardation. Jiao X, et al. Mol Cell, 2006 Dec 8. PMID 17157254.The LIFEdb database in 2006. Mehrle A, et al. Nucleic Acids Res, 2006 Jan 1. PMID 16381901.From ORFeome to biology: a functional genomics pipeline. Wiemann S, et al. Genome Res, 2004 Oct. PMID 15489336.

Images

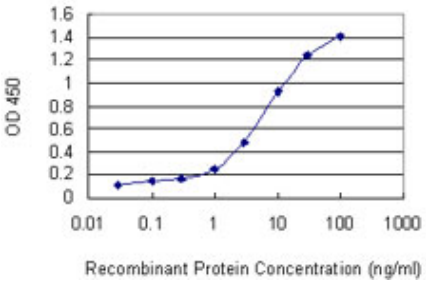


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.63 KDa) .



Western Blot analysis of VCX3A expression in transfected 293T cell line by VCX3A monoclonal antibody (M01), clone 6A3.

Lane 1: VCX3A transfected lysate(17.8 KDa).
Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged VCX3A is 0.03 ng/ml as a capture antibody.