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CRX Antibody (monoclonal) (M04)

Mouse monoclonal antibody raised against a partial recombinant CRX.
Catalog # AT1639a

Product Information

Application	WB, E
Primary Accession	O43186
Other Accession	NM_000554
Reactivity	Human, Rat
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	6D11
Calculated MW	32261

Additional Information

Gene ID	1406
Other Names	Cone-rod homeobox protein, CRX, CORD2
Target/Specificity	CRX (NP_000545, 1 a.a. ~ 95 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	CRX Antibody (monoclonal) (M04) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

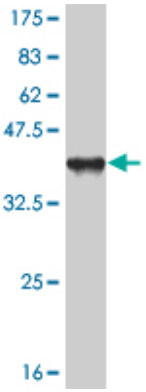
The protein encoded by this gene is a photoreceptor-specific transcription factor which plays a role in the differentiation of photoreceptor cells. This homeodomain protein is necessary for the maintenance of normal cone and rod function. Mutations in this gene are associated with photoreceptor degeneration, Leber congenital amaurosis type III and the autosomal dominant cone-rod dystrophy 2. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of some variants has not been determined.

References

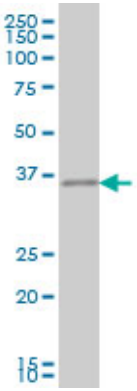
Development of a Diagnostic Genetic Test for Simplex and Autosomal Recessive Retinitis Pigmentosa. Clark

GR, et al. Ophthalmology, 2010 Jun 28. PMID 20591486.CRX is a diagnostic marker of retinal and pineal lineage tumors. Santagata S, et al. PLoS One, 2009 Nov 20. PMID 19936203.Mutations in the DNA-binding domain of NR2E3 affect in vivo dimerization and interaction with CRX. Roduit R, et al. PLoS One, 2009 Oct 12. PMID 19823680.Mutations that are a common cause of Leber congenital amaurosis in northern America are rare in southern India. Sundaresan P, et al. Mol Vis, 2009 Sep 4. PMID 19753312.Differential CRX and OTX2 expression in human retina and retinoblastoma. Glubrecht DD, et al. J Neurochem, 2009 Oct. PMID 19686387.

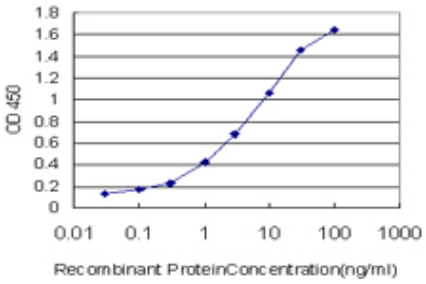
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.19 KDa) .



CRX monoclonal antibody (M04), clone 6D11 Western Blot analysis of CRX expression in PC-12 ((Cat # AT1639a)



Detection limit for recombinant GST tagged CRX is approximately 0.1ng/ml as a capture antibody.

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