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RLBP1 Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a full length recombinant RLBP1.
Catalog # AT3650a

Product Information

Application	WB, IF, E
Primary Accession	P12271
Other Accession	BC004199
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 kappa
Clone Names	4H5
Calculated MW	36474

Additional Information

Gene ID	6017
Other Names	Retinaldehyde-binding protein 1, Cellular retinaldehyde-binding protein, RLBP1, CRALBP
Target/Specificity	RLBP1 (AAH04199, 1 a.a. ~ 317 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200 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	RLBP1 Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

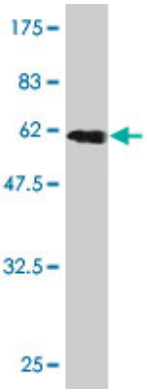
The protein encoded by this gene is a 36-kD water-soluble protein which carries 11-cis-retinaldehyde or 11-cis-retinal as physiologic ligands. It may be a functional component of the visual cycle. Mutations of this gene have been associated with severe rod-cone dystrophy, Bothnia dystrophy (nonsyndromic autosomal recessive retinitis pigmentosa) and retinitis punctata albescens.

References

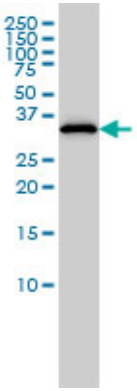
Central retinal findings in Bothnia dystrophy caused by RLBP1 sequence variation. Burstedt MS, et al. Arch Ophthalmol, 2010 Aug. PMID 20696998.Development of a Diagnostic Genetic Test for Simplex and

Autosomal Recessive Retinitis Pigmentosa. Clark GR, et al. Ophthalmology, 2010 Jun 28. PMID 20591486.Bothnia dystrophy is caused by domino-like rearrangements in cellular retinaldehyde-binding protein mutant R234W. He X, et al. Proc Natl Acad Sci U S A, 2009 Nov 3. PMID 19846785.Prefrontal cortex shotgun proteome analysis reveals altered calcium homeostasis and immune system imbalance in schizophrenia. Martins-de-Souza D, et al. Eur Arch Psychiatry Clin Neurosci, 2009 Apr. PMID 19165527.Carrier of R14W in carbonic anhydrase IV presents Bothnia dystrophy phenotype caused by two allelic mutations in RLBP1. K?hn L, et al. Invest Ophthalmol Vis Sci, 2008 Jul. PMID 18344446.

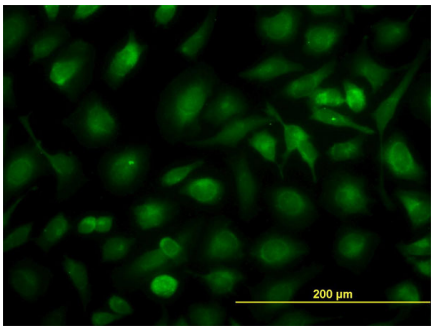
Images



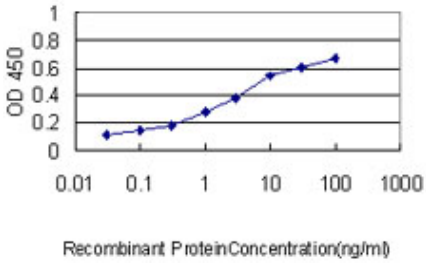
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (60.61 KDa) .



RLBP1 monoclonal antibody (M02), clone 4H5 Western Blot analysis of RLBP1 expression in HepG2 ((Cat # AT3650a)



Immunofluorescence of monoclonal antibody to RLBP1 on HeLa cell. [antibody concentration 20 ug/ml]



Detection limit for recombinant GST tagged RLBP1 is approximately 0.1ng/ml as a capture antibody.