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AP1S2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant AP1S2.
Catalog # AT1152a

Product Information

Application	E
Primary Accession	P56377
Other Accession	BC001117
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2b kappa
Clone Names	3B9-G5
Calculated MW	18615

Additional Information

Gene ID	8905
Other Names	AP-1 complex subunit sigma-2, Adaptor protein complex AP-1 subunit sigma-1B, Adaptor-related protein complex 1 subunit sigma-1B, Clathrin assembly protein complex 1 sigma-1B small chain, Golgi adaptor HA1/AP1 adaptin sigma-1B subunit, Sigma 1B subunit of AP-1 clathrin, Sigma-adaptin 1B, Sigma1B-adaptin, AP1S2
Target/Specificity	AP1S2 (AAH01117, 1 a.a. ~ 157 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	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	AP1S2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

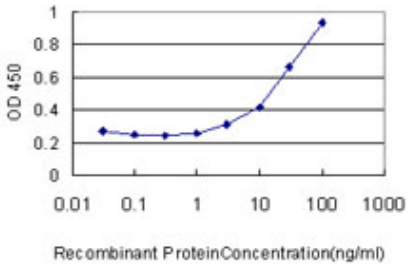
Background

Adaptor protein complex 1 is found at the cytoplasmic face of coated vesicles located at the Golgi complex, where it mediates both the recruitment of clathrin to the membrane and the recognition of sorting signals within the cytosolic tails of transmembrane receptors. This complex is a heterotetramer composed of two large, one medium, and one small adaptin subunit. The protein encoded by this gene serves as the small subunit of this complex and is a member of the adaptin protein family. Transcript variants utilizing alternative polyadenylation signals exist for this gene.

References

Clinical, cellular, and neuropathological consequences of AP1S2 mutations: further delineation of a recognizable X-linked mental retardation syndrome. Borck G, et al. Hum Mutat, 2008 Jul. PMID 18428203.Mutations in the AP1S2 gene encoding the sigma 2 subunit of the adaptor protein 1 complex are associated with syndromic X-linked mental retardation with hydrocephalus and calcifications in basal ganglia. Saillour Y, et al. J Med Genet, 2007 Nov. PMID 17617514.Mutations in the gene encoding the Sigma 2 subunit of the adaptor protein 1 complex, AP1S2, cause X-linked mental retardation. Tarpey PS, et al. Am J Hum Genet, 2006 Dec. PMID 17186471.HIV-1 Nef stabilizes AP-1 on membranes without inducing ARF1-independent de novo attachment. Coleman SH, et al. Virology, 2006 Feb 5. PMID 16253302.Leucine-specific, functional interactions between human immunodeficiency virus type 1 Nef and adaptor protein complexes. Coleman SH, et al. J Virol, 2005 Feb. PMID 15681409.

Images



Detection limit for recombinant GST tagged AP1S2 is approximately 3ng/ml as a capture antibody.