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ATP6V1G2 Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant ATP6V1G2.
Catalog # AT1243a

Product Information

Application	WB
Primary Accession	O95670
Other Accession	NM_130463
Reactivity	Human, Mouse, Rat
Host	mouse
Clonality	monoclonal
Isotype	IgG2b Lambda
Clone Names	2E12
Calculated MW	13604

Additional Information

Gene ID	534
Other Names	V-type proton ATPase subunit G 2, V-ATPase subunit G 2, V-ATPase 13 kDa subunit 2, Vacuolar proton pump subunit G 2, ATP6V1G2, ATP6G, ATP6G2, NG38
Target/Specificity	ATP6V1G2 (NP_569730, 41 a.a. ~ 118 a.a) partial 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	ATP6V1G2 Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

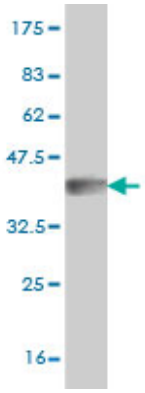
This gene encodes a component of vacuolar ATPase (V-ATPase), a multisubunit enzyme that mediates acidification of intracellular compartments of eukaryotic cells. V-ATPase dependent acidification is necessary for such intracellular processes as protein sorting, zymogen activation, receptor-mediated endocytosis, and synaptic vesicle proton gradient generation. V-ATPase is composed of a cytosolic V1 domain and a transmembrane V0 domain. The V1 domain consists of three A and three B subunits, two G subunits plus the C, D, E, F, and H subunits. The V1 domain contains the ATP catalytic site. The V0 domain consists of five different subunits: a, c, c', c'', and d. Additional isoforms of many of the V1 and V0 subunit proteins are encoded by multiple genes or alternatively spliced transcript variants. This encoded protein is one of three V1 domain G subunit proteins. This gene had previous gene symbols of ATP6G and ATP6G2. Alternatively

spliced transcript variants encoding different isoforms have been described.

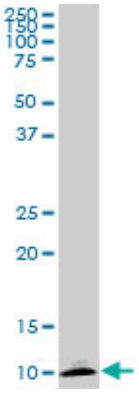
References

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.Gene-centric association signals for lipids and apolipoproteins identified via the HumanCVD BeadChip. Talmud PJ, et al. Am J Hum Genet, 2009 Nov. PMID 19913121.High-density SNP screening of the major histocompatibility complex in systemic lupus erythematosus demonstrates strong evidence for independent susceptibility regions. Barcellos LF, et al. PLoS Genet, 2009 Oct. PMID 19851445.Proteomic and bioinformatic characterization of the biogenesis and function of melanosomes. Chi A, et al. J Proteome Res, 2006 Nov. PMID 17081065.

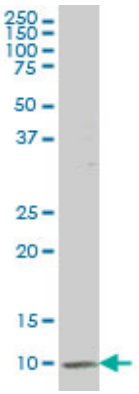
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (34.32 KDa) .

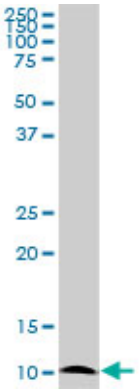


ATP6V1G2 monoclonal antibody (M02), clone 2E11. Western Blot analysis of ATP6V1G2 expression in PC-12 ((Cat # AT1243a)

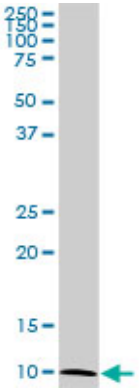


ATP6V1G2 monoclonal antibody (M02), clone 2E11 Western Blot analysis of ATP6V1G2 expression in HepG2 ((Cat # AT1243a)

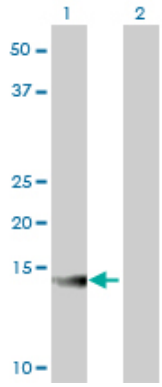
ATP6V1G2 monoclonal antibody (M02), clone 2E11. Western Blot analysis of ATP6V1G2 expression in Raw



264.7 ((Cat # AT1243a)



ATP6V1G2 monoclonal antibody (M02), clone 2E11.
Western Blot analysis of ATP6V1G2 expression in NIH/3T3 ((Cat # AT1243a)



Western Blot analysis of ATP6V1G2 expression in transfected 293T cell line by ATP6V1G2 monoclonal antibody (M02), clone 2E11.

Lane 1: ATP6V1G2 transfected lysate(13.6 KDa).
Lane 2: Non-transfected lysate.