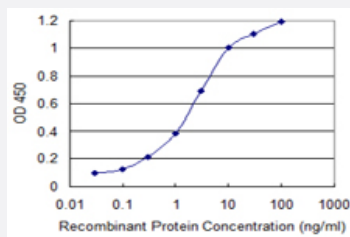


ATP6V1G3 monoclonal antibody (M13), clone 3A5

Catalog # H00127124-M13

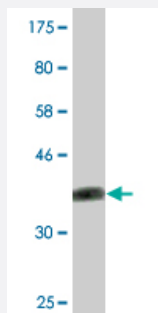
Size 100 ug

Applications



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged ATP6V1G3 is 0.03 ng/ml as a capture antibody.



Western Blot detection against Immunogen (34.65 KDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a partial recombinant ATP6V1G3.

Immunogen

ATP6V1G3 (NP_573569, 38 a.a. ~ 118 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Sequence

EEAMVEIDQYRMQRDKEFRLKQSKIMGSQNNLSDEIEEQTLGKIQELNGHYNKYMESVMNQLLSM
VCDMKPEIHVNYRATN

Host

Mouse

Reactivity

Human

Interspecies Antigen Sequence	Mouse (80); Rat (77)
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (34.65 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged ATP6V1G3 is 0.03 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — ATP6V1G3

Entrez GeneID	127124
GeneBank Accession#	NM_133262
Protein Accession#	NP_573569
Gene Name	ATP6V1G3
Gene Alias	ATP6G3, MGC119810, MGC119813, Vma10
Gene Description	ATPase, H ⁺ transporting, lysosomal 13kDa, V1 subunit G3
Gene Ontology	Hyperlink

Gene Summary

This gene encodes a component of vacuolar ATPase (V-ATPase), a multisubunit enzyme that mediates acidification of eukaryotic intracellular organelles. V-ATPase dependent organelle 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 gene encodes one of three G subunit proteins. Transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

Other Designations

ATPase, H⁺ transporting, lysosomal (vacuolar proton pump) subunit G3|ATPase, H⁺ transporting, lysosomal 13kD, V1 subunit G|ATPase, H⁺ transporting, lysosomal, V1 subunit G3|OTTHUMP0000033686|V-ATPase 13 kDa subunit 3|V-ATPase G subunit 3|V-ATPase G3 subu

Pathway

- [Epithelial cell signaling in Helicobacter pylori infection](#)
- [Metabolic pathways](#)
- [Oxidative phosphorylation](#)
- [Vibrio cholerae infection](#)