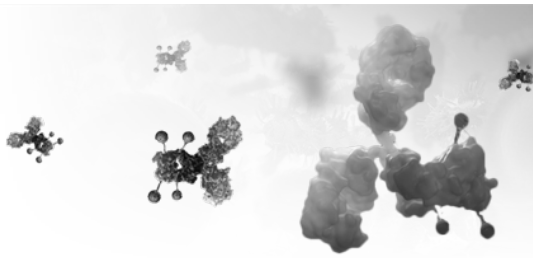

Anti-ATP6V1G2 (aa 41-118) polyclonal antibody (DPAB-DC2273)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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. Read-through transcription also exists between this gene and the downstream DEAD (Asp-Glu-Ala-Asp) box polypeptide 39B (DDX39B) gene.
Immunogen	ATP6V1G2 (NP_569730, 41 a.a. ~ 118 a.a) partial recombinant protein with GST tag. The sequence is QMEVEQYRREREHEFQSKQQAAMGSQGNLSAEVEQATRRQVQGMQSSQQRNRERVLAQLL GMVCDVRPQVHPNYRISA
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol

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Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	ATP6V1G2 ATPase, H+ transporting, lysosomal 13kDa, V1 subunit G2 [Homo sapiens (human)]
Official Symbol	ATP6V1G2
Synonyms	ATP6V1G2; ATPase, H+ transporting, lysosomal 13kDa, V1 subunit G2; NG38; ATP6G; VMA10; ATP6G2; V-type proton ATPase subunit G 2; V-ATPase 13 kDa subunit 2; vacuolar proton pump G subunit 2; vacuolar ATP synthase subunit G 2; H(+)-transporting two-sector ATPase, subunit G2; ATPase, H+ transporting, lysosomal (vacuolar proton pump);
Entrez Gene ID	534
Protein Refseq	NP_001191007
UniProt ID	O95670
Chromosome Location	6p21.3
Pathway	Collecting duct acid secretion; Disease; Epithelial cell signaling in Helicobacter pylori infection; Iron uptake and transport
Function	hydrogen-exporting ATPase activity, phosphorylative mechanism;

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