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ATP6V1D / V-ATPase subunit D Antibody (clone 3G4)

Mouse Monoclonal Antibody
Catalog # ALS13488

Specification

ATP6V1D / V-ATPase subunit D Antibody (clone 3G4) - Product Information

Application	**IHC**
Primary Accession	Q9Y5K8
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**28kDa KDa**

ATP6V1D / V-ATPase subunit D Antibody (clone 3G4) - Additional Information

Gene ID 51382

Other Names
V-type proton ATPase subunit D, V-ATPase subunit D, V-ATPase 28 kDa accessory protein, Vacuolar proton pump subunit D, ATP6V1D, ATP6M, VATD

Reconstitution & Storage
Store at -20°C. Aliquot to avoid freeze/thaw cycles.

Precautions
ATP6V1D / V-ATPase subunit D Antibody (clone 3G4) is for research use only and not for use in diagnostic or therapeutic procedures.

ATP6V1D / V-ATPase subunit D Antibody (clone 3G4) - Protein Information

Name ATP6V1D

Synonyms ATP6M, VATD

Function
Subunit of the V1 complex of vacuolar(H+)-ATPase (V-ATPase), a multisubunit enzyme composed of a peripheral complex (V1) that hydrolyzes ATP and a membrane integral complex (V0) that translocates protons (PubMed:33065002). V-ATPase is responsible for acidifying and maintaining the pH of intracellular compartments and in some cell types, is targeted to the plasma membrane, where it is responsible for acidifying the extracellular environment (By similarity). May play a role in cilium biogenesis through regulation of the transport and the localization of proteins to the cilium (PubMed:21844891).

Cellular Location
Membrane; Peripheral membrane protein; Cytoplasmic side. Cytoplasmic vesicle, clathrin- coated vesicle membrane {ECO:0000250|UniProtKB:P39942}; Peripheral membrane protein. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cell projection, cilium. Note=Localizes

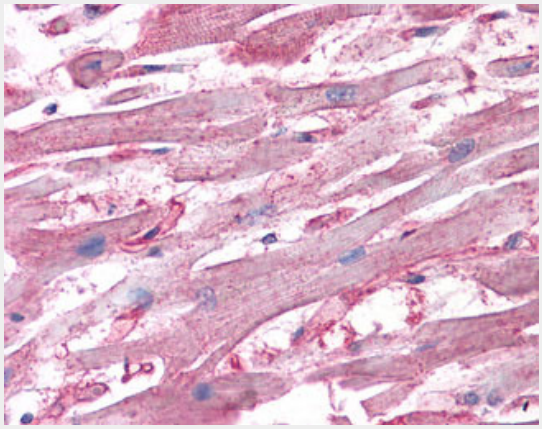
to centrosome and the base of the cilium.

ATP6V1D / V-ATPase subunit D Antibody (clone 3G4) - Protocols

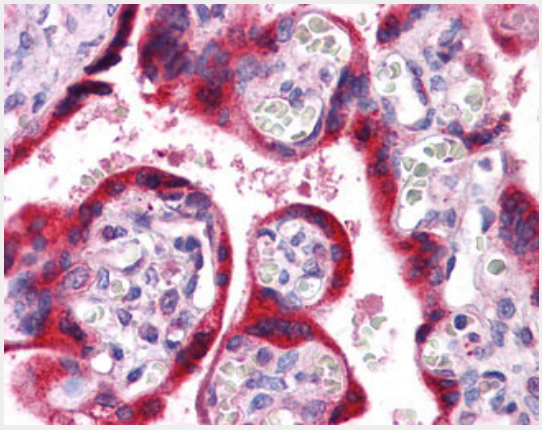
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ATP6V1D / V-ATPase subunit D Antibody (clone 3G4) - Images



Anti-ATP6V1D antibody IHC of human heart.



Anti-ATP6V1D antibody IHC of human placenta.

ATP6V1D / V-ATPase subunit D Antibody (clone 3G4) - Background

Subunit of the peripheral V1 complex of vacuolar ATPase. Vacuolar ATPase is responsible for acidifying a variety of intracellular compartments in eukaryotic cells, thus providing most of the energy required for transport processes in the vacuolar system (By similarity). May play a role in cilium biogenesis through regulation of the transport and the localization of proteins to the cilium.

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ATP6V1D / V-ATPase subunit D Antibody (clone 3G4) - References

Zhao Y.,et al.Submitted (APR-1999) to the EMBL/GenBank/DDBJ databases.
Hu R.-M.,et al.Proc. Natl. Acad. Sci. U.S.A. 97:9543-9548(2000).
Quan L.,et al.Submitted (NOV-1998) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.