Data Sheet (Cat.No.TMAB-00169)

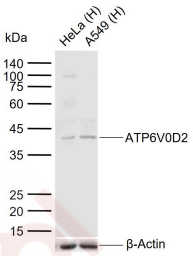
Anti-ATP6V0D2 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human (predicted:Mouse,Rat,Dog,Pig,Sheep)
Molecular Weight:	Theoretical: 40 kDa. Actual: 40 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	Sample: Lane 1: Human HeLa cell lysates Lane 2: Human A549 cell lysates Primary: Anti-ATP6V0D2 (TMAB-00169) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 40 kDa Observed band size: 40 kDa



Application:	WB
Recommended	WB: 1:500-2000

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human ATP6V0D2/V-ATPase D2
Antigen Species:	Human
Gene ID:	245972
Uniprot ID:	Q8N8Y2
Synonyms:	Vacuolar ATP synthase subunit d 2;V-ATPase D2;V ATPase subunit d 2;VMA 6;ATPase H+transporting lysosomal 38kDa V0 subunit D;Vacuolar proton pump subunit d 2;ATPase H+transporting lysosomal 38kDa V0 subunit D isoform 2;ATP6D2;FLJ38708;VA0D2;VMA6;ATPase H+transporting lysosomal 38kDa V0 subunit D2
Biology Area:	ATPases

Research Background

Vacuolar-type H+-ATPase (V-ATPase) is a multisubunit enzyme responsible for acidification of eukaryotic intracellular organelles. V-ATPases pump protons against an electrochemical gradient, while F-ATPases reverse the process, thereby synthesizing ATP. A peripheral V1 domain, which is responsible for ATP hydrolysis, and a integral V0 domain, which is responsible for proton translocation, compose V-ATPase. Nine subunits (A-H) make up the V1 domain and five subunits (a, d, c, c' and c") make up the V0 domain. Like F-ATPase, V-ATPase most likely operates through a rotary mechanism. V-ATPase D2 is a 350 amino acid protein that is expressed in kidney, lung and osteoclast. V-ATPase D2 has been implicated as a regulator of urine acidification, osteoclast fusion and bone formation. Furthermore, V-ATPase D2 has been identified as a dendritic cell marker.

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