

HIG2 Antibody

Catalog # ASC11376

Product Information

Application	WB, E
Primary Accession	<u>Q9BW72</u>
Other Accession	<u>NP_001092256, 20270389</u>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
lsotype	IgG
Calculated MW	11529
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	HIG2 antibody can be used for detection of HIG2 by Western blot at 1 lg/mL.

Additional Information

Gene ID Other Names	192286 HIG1 domain family member 2A, mitochondrial, RCF1 homolog B, RCF1b, HIGD2A
Target/Specificity	HIGD2A; At least two isoforms of HIG2 are known to exist; this antibody will detect both isoforms. HIG2 antibody is predicted to not cross-react with HIG1
Reconstitution & Storage	HIG2 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	HIG2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	HIGD2A
Function	Proposed subunit of cytochrome c oxidase (COX, complex IV), which is the terminal component of the mitochondrial respiratory chain that catalyzes the reduction of oxygen to water. May be involved in cytochrome c oxidase activity. May play a role in the assembly of respiratory supercomplexes.
Cellular Location	Mitochondrion membrane {ECO:0000255 PROSITE- ProRule:PRU00836, ECO:0000269 PubMed:22342701}; Multi-pass membrane protein {ECO:0000255 PROSITE-ProRule:PRU00836, ECO:0000269 PubMed:22342701}. Mitochondrion inner membrane

Background

HIG2 Antibody: HIG1 and HIG2 (Hypoxia-inducible gene 1 and 2, respectively) are known to be induced by hypoxic conditions. HIG2 is induced by hypoxia and by glucose deprivation in cultured cells. In addition, tumor xenografts derived from human cervical cancer cells display increased expression of HIG1 and HIG2 when they are deprived of oxygen. Unlike HIG2, which is ubiquitously expressed and might be an activator and target of the canonical Wnt pathway, the function and the mechanisms underlying its regulation of HIG1 still remained unknown. The putative link between hypoxia and an oncogenic signaling pathway might play an important role in tumorigenesis.

References

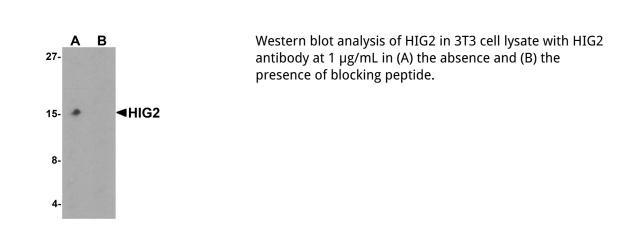
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Images



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