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HIG2 Antibody
Catalog # ASC11376

Specification

HIG2 Antibody - Product Information

Application	**WB, E**
Primary Accession	Q9BW72
Other Accession	NP_001092256, 20270389
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Application Notes	**HIG2 antibody can be used for detection of HIG2 by Western blot at 1 µg/mL.**

HIG2 Antibody - Additional Information

Gene ID **192286**

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℃ for three months and -20℃, 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.

HIG2 Antibody - 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

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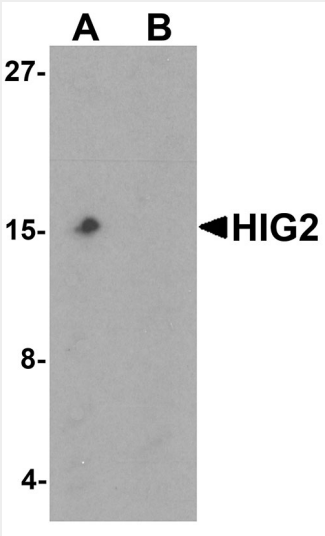
HIG2 Antibody - Protocols

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

HIG2 Antibody - Images



Western blot analysis of HIG2 in 3T3 cell lysate with HIG2 antibody at 1 µg/mL in (A) the absence and (B) the presence of blocking peptide.

HIG2 Antibody - 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.

HIG2 Antibody - References

Bedo G, Vargas M, Ferreiro MJ, et al. Characterization of hypoxia induced gene 1: expression during rat central nervous system maturation and evidence of antisense RNA expression. Int. J. Dev. Biol. 2005; 49:431-6
Simpson JC, Wellenreuther R, Poustka A, et al. Systematic subcellular localization of novel proteins identified by large-scale cDNA sequencing. EMBO Rep. 2000; 1:287-92
Denko NC, Schindler C, Koong A, et al. Epigenetic regulation of gene expression in cervical cancer cells by the tumor microenvironment. Clin. Cancer Res. 2000; 6:480-7
Gimm T, Wiese M, Teschemacher B, et al. Hypoxia-inducible protein 2 is a novel lipid droplet protein

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