

AP55589PU-N**Polyclonal Antibody to HIG2 (C-term) - Aff - Purified**

Alternate names:	HILPDA, Hypoxia-inducible gene 2 protein
Quantity:	0.1 mg
Concentration:	1.0 mg/ml
Background:	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.
Uniprot ID:	Q9Y5L2
NCBI:	NP_001092256.1
GeneID:	29923
Host / Isotype:	Rabbit / IgG
Immunogen:	HIG2 antibody was raised against a 16 amino acid synthetic peptide near the carboxy terminus of human HIG2. (AP55589CP-N)
Format:	State: Liquid purified Ig fraction Purification: Affinity chromatography purified via peptide column Buffer System: PBS containing 0.02% sodium azide.
Applications:	HIG2 antibody can be used for detection of HIG2 by Western blot at 1 ug/mL. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	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 Species: Human, mouse Other species not tested.
Add. Information:	Blocking peptide available: blocking peptide (AP55589CP-N)
Storage:	Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	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. <i>Int. J. Dev. Biol.</i> 2005; 49:431-6 Simpson JC, Wellenreuther R, Poustka A, et al. Systematic subcellular localization of novel proteins identified by large-scale cDNA sequencing. <i>EMBO Rep.</i> 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. <i>Clin. Cancer Res.</i> 2000; 6:480-7 Gimm T, Wiese M, Teschemacher B, et al. Hypoxia-inducible protein 2 is a novel lipid

droplet protein and a specific target gene of hypoxia-inducible factor-1. FASEB J. 2010; 24:4443-58.

Pictures:

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

