

HIG2 Rabbit pAb

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Catalog # AP56021

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q9Y5L2
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	6950
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human HIG2
Epitope Specificity	21-63/63
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Lipid droplet. Secreted. Membrane; Single-pass membrane protein (Potential).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	HIG2 is a 63 amino acid single-pass membrane protein that can be hypoxia induced by glucose deprivation. Expression of HIG2 is increased in cervical cancer cells but inhibited in renal cell carcinoma. When bound to the extracellular domain of frizzled-10, HIG2 enhances oncogenic Wnt signaling and its own transcription, which suggests HIG2 may function as an autocrine growth factor. HIG2 may be a candidate for development of molecular-targeting therapy and could serve as a prominent diagnostic tumor marker for patients with renal carcinomas. The gene encoding HIG2 maps to human chromosome 7, which houses over 1,000 genes and comprises nearly 5% of the human genome. Defects in some of the genes localized to chromosome 7 have been linked to Osteogenesis imperfecta, Williams-Beuren syndrome, Pendred syndrome, Lissencephaly, Citrullinemia and Shwachman-Diamond syndrome.

Additional Information

Gene ID	29923
Other Names	Hypoxia-inducible lipid droplet-associated protein, Hypoxia-inducible gene 2 protein, HILPDA, C7orf68, HIG2
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

Protein Information

Name	HILPDA
Synonyms	C7orf68, HIG2
Function	Increases intracellular lipid accumulation. Stimulates expression of cytokines including IL6, MIF and VEGFA. Enhances cell growth and proliferation.
Cellular Location	Lipid droplet. Secreted. Membrane; Single-pass membrane protein
Tissue Location	Highly expressed in renal cell carcinoma cells but barely detectable in adjacent normal kidney tissue. Detected in some cervical and endometrial cancers. Expression also detected in fetal kidney with little or no expression observed in normal adult heart, liver, lung, pancreas, prostate or spinal cord (at protein level)

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.