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[Primary Antibody]

Rabbit Anti-HIG2 antibody

Catalog Number: SL15488R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	HIG2
Immunogen:	KLH conjugated synthetic peptide derived from human HIG2: 21-63/63
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	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 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted: Human)
Predicted MW.:	7kDa
Subcellular Location:	The cell membrane
Background:	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

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	have been linked to Osteogenesis imperfecta, Williams-Beuren syndrome, Pendred syndrome, Lissencephaly, Citrullinemia and Shwachman-Diamond syndrome. **Function:** Increases intracellular lipid accumulation. Stimulates expression of cytokines including IL6, MIF and VEGFA. Enhances cell growth and proliferation. **Subcellular Location:** Lipid droplet. Secreted. Membrane; Single-pass membrane protein (Potential). **Tissue Specificity:** 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). **Database links:** **Entrez Gene:** 29923 Human **SwissProt:** Q9Y5L2 Human **Unigene:** 706124 Human

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