Recombinant Human CXXC4 Protein, GST-tagged

Cat. No. CXXC4-2205H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CXXC4 full-length ORF (NP_079488.1, 1 a.a. - 198 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	This gene encodes a CXXC-type zinc finger domain-containing protein that functions as an antagonist of the canonical wingless/integrated signaling pathway. The encoded protein negatively regulates wingless/integrated signaling through interaction with the post synaptic density protein/ Drosophila disc large tumor suppressor/ zonula occludens-1 protein domain of Dishevelled, a scaffolding protein required for the stabilization of the transcriptional co-activator beta-catenin. In addition, the CXXC domain of this protein has been shown to bind unmethylated CpG dinucleotides, localize to promoters and CpG islands, and interact with the catalytic domain of methylcytosine dioxygenase ten-eleven-translocation 2, an iron and alpha-ketoglutarate-dependent dioxygenase that modifies the methylation status of DNA. In humans, a mutation in this gene has been associated with development of malignant renal cell carcinoma. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]
Molecular Mass	47.4 kDa
AA Sequence	MHHRNDSQRLGKAGCPPEPSLQMANTNFLSTLSPEHCRPLAGECMNKLKCGAAEA

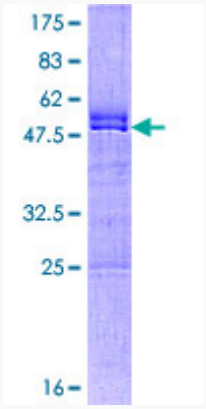
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	EIMNLPERVGTFSAIPALGGISLPPGVIVMTALHSPAAASAAVTDSAFQIANLADCPQN HSSSSSSSSGGAGGANPAKKKRKRCGVCVPCKRLINCGVCSSCRNRKTGHQICKF RKCEELKKKPGTSLERTPVPSAEAFRWFF
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	CXXC4 CXXC finger protein 4 [Homo sapiens]
Official Symbol	CXXC4
Synonyms	CXXC4; CXXC finger protein 4; CXXC-type zinc finger protein 4; Dvl binding protein IDAX (inhibition of the Dvl and Axin complex); IDAX; CXXC finger 4; inhibition of the Dvl and axin complex protein; Dvl-binding protein IDAX (inhibition of the Dvl and Axin complex); MGC149872;
Gene ID	80319
mRNA Refseq	NM_025212
Protein Refseq	NP_079488

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MIM	611645
UniProt ID	Q9H2H0
Quality Control Testing:	 12.5% SDS-PAGE Stained with Coomassie Blue.

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