

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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EIMNLPERVGTFS AIPALGGISLPPGVIVMTALHSPAAASAAVTDSAFQIANLADCPQN
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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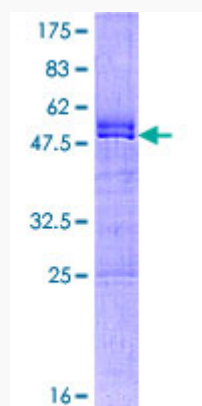
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MIM 611645

UniProt ID Q9H2H0

Quality Control
Testing:



12.5% SDS-PAGE Stained with Coomassie Blue.

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