

HDGR2 Blocking Peptide (N-term)

Synthetic peptide

Catalog # BP20245A

Specification

HDGR2 Blocking Peptide (N-term) - Product Information

Primary Accession

[O7Z4V5](#)

Other Accession

[O5XXA9](#), [Q32N87](#), [Q925G1](#), [Q3UMU9](#),
[NP_001001520.1](#)**HDGR2 Blocking Peptide (N-term) - Additional Information****Gene ID** 84717**Other Names**

Hepatoma-derived growth factor-related protein 2, HRP-2, Hepatoma-derived growth factor 2, HDGF-2, HDGFRP2, HDGF2

Target/Specificity

The synthetic peptide sequence is selected from aa 66-79 of HUMAN HDGFRP2

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

HDGR2 Blocking Peptide (N-term) - Protein Information**Name** HDGFL2 ([HGNC:14680](#))**Function**

Acts as an epigenetic regulator of myogenesis in cooperation with DPF3a (isoform 2 of DPF3/BAF45C) (PubMed:32459350). Associates with the BAF complex via its interaction with DPF3a and HDGFL2-DPF3a activate myogenic genes by increasing chromatin accessibility through recruitment of SMARCA4/BRG1/BAF190A (ATPase subunit of the BAF complex) to myogenic gene promoters (PubMed:32459350). Promotes the repair of DNA double-strand breaks (DSBs) through the homologous recombination pathway by facilitating the recruitment of the DNA endonuclease RBBP8 to the DSBs (PubMed:26721387). Preferentially binds to chromatin regions marked by H3K9me3, H3K27me3 and H3K36me2 (PubMed:26721387, PubMed:32459350).

target="_blank">32459350). Involved in cellular growth control, through the regulation of cyclin D1 expression (PubMed:25689719).

Cellular Location

Nucleus. Cytoplasm {ECO:0000250|UniProtKB:Q925G1}

Tissue Location

Widely expressed. High expression is found in heart, skeletal muscle, ovary and testis. Overexpression is frequently observed in hepatocellular carcinoma samples

HDGR2 Blocking Peptide (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

HDGR2 Blocking Peptide (N-term) - Images**HDGR2 Blocking Peptide (N-term) - Background**

This gene encodes a member of the hepatoma-derived growth factor (HDGF) family. Two alternatively spliced transcript variants encoding slightly different isoforms have been found for this gene.

HDGR2 Blocking Peptide (N-term) - References

Matsuoka, S., et al. Science 316(5828):1160-1166(2007)
Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :
Olsen, J.V., et al. Cell 127(3):635-648(2006)
Vandegraaff, N., et al. Virology 346(2):415-426(2006)
Clark, H.F., et al. Genome Res. 13(10):2265-2270(2003)