HMCES Peptide - N-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	HMCES, Blocking Peptide
Full Product Name	HMCES Peptide - N-terminal region
Product Gene Name	HMCES blocking peptide
Product Synonym Gene Name	Srap1; C85376; 8430410A17Rik; HMCES
Sequence	SYNKSPQSSS PVLLSRLHFE KDADSSDRII IPMRWGLVPS WFKESDPSKL
Species Reactivity	Mouse, Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	HMCES peptide (MBS3238268) is used for blocking the activity of HMCES antibody (MBS3213323)
Molecular Weight	39kDa
Product Categories/Family for HMCES blocking peptide	Peptide
Applications Tested/Suitable for HMCES blocking peptide	Western Blot (WB)
Related Product Information for HMCES blocking peptide	MBS3238268 is a blocking peptide targeting HMCES. Also known as HMCES Peptide - N-terminal region. Reactive in Mouse, Human.
Other Notes	Small volumes of HMCES blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HMCES. It may not necessarily be applicable to this product.

NCBI GI #	30424571
NCBI GeneID	232210
NCBI Accession #	NP_776098
UniProt Primary Accession #	Q8R1M0
UniProt Related Accession #	Q8R1M0
GenBank Nucleotide #	NM_173737
NCBI Official Full Name	embryonic stem cell-specific 5-hydroxymethylcytosine-binding protein
NCBI Official Synonym Full Names	5-hydroxymethylcytosine (hmC) binding, ES cell specific
NCBI Official Symbol	Hmces
NCBI Official Synonym Symbols	Srap1; C85376; 8430410A17Rik
UniProt Protein Name	Embryonic stem cell-specific 5-hydroxymethylcytosine-binding protein

UniProt Synonym Protein Names	Putative peptidase SRAPD1 (EC:3.4.-.-); SRAP domain-containing protein 1
Protein Family	Embryonic stem cell-specific 5-hydroxymethylcytosine-binding protein
UniProt Gene Name	Hmces
UniProt Synonym Gene Names	Srapd1; ES cell-specific 5hmC-binding protein
NCBI Protein Information	embryonic stem cell-specific 5-hydroxymethylcytosine-binding protein
UniProt Comments for HMCES	Specifically binds 5-hydroxymethylcytosine (5hmC)-containing DNA in stem cells, suggesting that it acts as a specific reader of 5hmC in stem cells (PubMed:23434322). May act as a peptidase; experimental evidences are however required to confirm this prediction.
Research Articles on HMCES	**1.** Inactivation of murine Srap1 results in accumulation of 5hmC in genomic DNA. Srap1 deficient mice display embryonic sublethality and altered DNA methylation.
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