SunLong Biotech Co.,LTD
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Recombinant Major Histocompatibility Complex Class I G (MHCG)

Catalog Number: SIPB475Hu01 **Spec: 50ug**

Product Name	Recombinant Major Histocompatibility Complex Class I G (MHCG)
Catalog Number	SIPB475Hu01
Organism Species	Human
Residues	Met29~His117
Tags	N-terminal His-Tag
Accession	P17693
Host	E. coli
Subcellular Location	Membrane; Single-pass type I membrane protein.
Purity	>95%
Endotoxin Level	<1.0EU per 1μg (determined by the LAL method).
Formulation	Supplied as lyophilized form in 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.
Predicted isoelectric point	6.0
Predicted Molecular Mass	11.9kDa
Accurate Molecular Mass	14kDa as determined by SDS-PAGE reducing conditions.
Applications	SDS-PAGE; WB; ELISA; IP. (May be suitable for use in other assays to be determined by the end user.)
Note	The possible reasons that the actual band size differs from the predicted are as follows: 1. Splice variants: Alternative splicing may create different sized proteins from the same gene. 2. Relative charge: The composition of amino acids may affects the charge of the protein. 3. Post-translational modification: Phosphorylation, glycosylation, methylation etc. 4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form. 5. Polymerization of the target protein: Dimerization, multimerization etc.

[USAGE]

Reconstitute in ddH2O.

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[STORAGE AND STABILITY]

Storage: Avoid repeated freeze/thaw cycles.

Store at 2-8oC for one month.

Aliquot and store at -80oC for 12 months.

Stability Test: The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37oC for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.

[SEQUENCES]

The sequence of the target protein is listed below. MR YFSAAVSRPG RGEPRFIAMG YVDDTQFVRF DSDSACPRME PRAPWVEQEG PEYWEEETRN TKAHAQTDRM NLQTLRGYYN QSEASSH

[REFERENCES]

1. Shukla H., et al. (1990) Nucleic Acids Res. 18:2189-2189. 2. Belov K., et al. (2006) PLoS Biol. 4 (3): e46. 3. Toh H., et al. (2000) Biopolymers 54 (5): 318–27. 4. Aderem A., et al. (1999) Annu. Rev. Immunol. 17: 593–623.