

**P91464Hu02**

**Lysosomal Associated Membrane Protein 2 (LAMP2)**

**Organism: Homo sapiens (Human)**

***Instruction manual***

FOR IN VITRO USE AND RESEARCH USE ONLY  
NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

5th Edition (Revised in January, 2013)

**[ DESCRIPTION ]**

**Protein Names:** Lysosomal Associated Membrane Protein 2

**Synonyms:** LAMP2

**Species:** Human

**Size:** 100µg

**Source:** *Escherichia coli*-derived

**Subcellular Location:** Cell membrane; Single-pass type I membrane protein. Endosome membrane; Lysosome membrane.

**[ PROPERTIES ]**

**Residues:** Lys193~Asn375 (Accession # P13473), with two N-terminal Tags, His-tag and GST-tag.

**Grade & Purity:** >95%, 48kDa as determined by SDS-PAGE reducing conditions.

**Formulation:** Supplied as lyophilized form in PBS, pH 7.4, containing 5% sucrose, 0.01% sarcosyl.

**Endotoxin Level:** <1.0 EU per 1µg (determined by the LAL method).

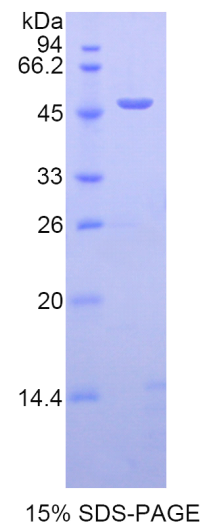
**Applications:** SDS-PAGE; WB; ELISA; IP.

(May be suitable for use in other assays to be determined by the end user.)

**Predicted Molecular Mass:** 47.0kDa

**Predicted isoelectric point:** 6.4

**Human LAMP2**



## [ PREPARATION ]

Reconstitute in sterile PBS, pH7.2-pH7.4.

## [ STORAGE AND STABILITY ]

**Storage: Avoid repeated freeze/thaw cycles.**

Store at 2-8°C for one month.

Aliquot and store at -80°C 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 37°C 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 target protein is fused with two N-terminal Tags, His-tag and GST-tag, its sequence is listed below.

MRNKKFELGL EFPNLPYYID GDVKLTQSMA IIRYIADKHN MLGGCPKERA EISMLEGAVL  
DIRYGVSRIA YSKDFETLKV DFLSKLPEML KMFEDRLCHK TYLNGDHVTH PDFMLYDALD  
VVL YM DPMCL DAFPKLVCFK KRIEAIQID KYLKSSKYIA WPLQGQWQATF GGGDHPKSD  
GSTSGSGHHH HHSAGLVPR GSTAIGMKET AAKFERQHM DSPDLGTLEV  
LFQGPLGSEF- KTSTVAPT IHTTVPSPTT TPTPKKEKPEA GTYSVNNGND TCLLATMGLQ  
LNITQDKVAS VININPNTTH STGSCRSHA LLRLNSSTIK YLDFVFAVKN ENRFYLKEVN  
ISMYLVNGSV FSIANNNLSY WDAPLGSSYM CNKEQTVSVS GAFQINTFDL RVQPFNVTQG  
KYSTAECSA DSDLN