

# Recombinant human STOM protein

Catalog Number: ATGP2172

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

55-288aa

### UniProt No.

P27105

### NCBI Accession No.

NP\_004090

### Alternative Names

Erythrocyte band 7 integral membrane protein isoform a, BND7, EPB7, EPB72

## PRODUCT SPECIFICATION

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### Molecular Weight

28 kDa (257aa)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE, Denatured

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

Erythrocyte band 7 integral membrane protein isoform a, also known as STOM, is a member of a highly conserved family of integral membrane proteins. STOM may regulate ACCN1 and ACCN3 gating. It is a membrane protein involved in regulation of monovalent cation transport through lipid membranes. A second function of STOM may be to act as a cytoskeletal anchor. It is a major lipid-raft component of erythrocytes and epithelial cells, and is also an abundant platelet protein. Recombinant human STOM protein, fused to His-tag at N-terminus, was expressed in E. coli.

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### Amino acid Sequence

MGSSHHHHHH SSSLVPRGSH MGSKIIKEYE RAIIFRLGRI LQGGAKGPGL FFILPCTDSF IKVDMRTISF DIPPQEILTK  
DSVTISVDGV VYYRVQNATL AVANITNADS ATRLLAQTTL RNVLGTKNLS QILSDREEIA HNMQSTLDDA TDAWGKVER  
VEIKDVKLPV QLQRAMAAEA EASREARAKV IAAEGEMNAS RALKEASMVI TSPAALQLR YLQTLTTIAA EKNSTIVFPL  
PIDMLQGIIG AKHSHLG

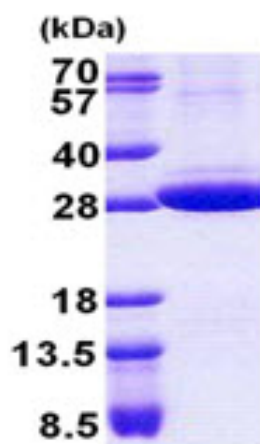
### General References

Mairhofer M., et al. (2002) Blood. 100:897-904.

## DATA

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### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)