

# Recombinant Human STX5

Catalog No: #GP12912



Package Size: #GP12912-1 100ug

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## Description

Product Name	Recombinant Human STX5
Brief Description	Recombinant Protein
Immunogen Description	Fusion protein corresponding to a region derived from 134-333 amino acids of human STX5
Target Name	syntaxin 5
Other Names	SED5; STX5A
Accession No.	Swissprot:Q13190Gene Accession:BC012137
Uniprot	Q13190
GeneID	6811;
Storage	-20~-80°C, pH 7.6 PBS

## Background

The membrane protein syntaxin 5 (STX5) is a key component of soluble N-ethylmaleimide-sensitive factor attachment protein (SNAP) receptor (SNARE) complexes that regulate cellular protein transport, vesicle docking, and membrane fusion. Syntaxin 5 protein is found as a 42 kDa ("long") protein localized to the Golgi complex and endoplasmic reticulum, and a short 35 kDa isoform localized primarily to the Golgi. Formation of the syntaxin 5 SNARE complex, which also includes proteins Sec22B, Bet1, GOSR1, GOSR2, and Ykt6, allows for regulation of ER-to-Golgi transport, intra-Golgi transport, and endosome-to-Golgi retrograde transport. Research studies indicate that the syntaxin 5 SNARE complex also plays an essential role in autophagy following autophagosome formation. Intracellular protein transport mediated by the syntaxin 5 complex is required for transport and localized activity of lysosomal proteases. The experimental reduction or deletion of syntaxin 5 complex components results in non-functional lysosomes and accumulation of autophagosomes.

## References

Note: For in vitro research use only, not for diagnostic or therapeutic use. This product is not a medical device.

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