

Product datasheet

Recombinant Human Blood Group Antigen Precursor protein ab113153

1 Image

Overview

Product name	Recombinant Human Blood Group Antigen Precursor protein
Protein length	Full length protein

Description

Nature	Recombinant
Source	Escherichia coli

Amino Acid Sequence

Accession	P16442
Species	Human
Molecular weight	37 kDa
Amino acids	54 to 354
Tags	His tag N-Terminus

Specifications

Our [Abpromise guarantee](#) covers the use of **ab113153** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE Mass Spectrometry
Mass spectrometry	MALDI-TOF
Purity	> 85 % SDS-PAGE. ab113153 was purified using conventional chromatography techniques.
Form	Liquid
Additional notes	

Preparation and Storage

Stability and Storage

Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 8.00

Constituents: 0.32% Tris HCl, 0.04% DTT, 20% Glycerol, 1.17% Sodium chloride

General Info

Function

This protein is the basis of the ABO blood group system. The histo-blood group ABO involves three carbohydrate antigens: A, B, and H. A, B, and AB individuals express a glycosyltransferase activity that converts the H antigen to the A antigen (by addition of UDP-GalNAc) or to the B antigen (by addition of UDP-Gal), whereas O individuals lack such activity.

Pathway

Protein modification; protein glycosylation.

Sequence similarities

Belongs to the glycosyltransferase 6 family.

Domain

The conserved DXD motif is involved in cofactor binding. The manganese ion interacts with the beta-phosphate group of UDP and may also have a role in catalysis.

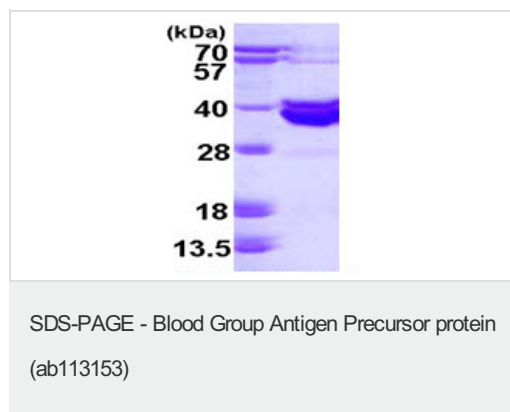
Post-translational modifications

The soluble form derives from the membrane form by proteolytic processing.

Cellular localization

Golgi apparatus > Golgi stack membrane. Secreted. Membrane-bound form in trans cisternae of Golgi. Secreted into the body fluid.

Images



15% SDS-PAGE showing ab113153 (3 µg) at approximately 37.4 kDa

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