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# Product Information

## MemDX™ Membrane Protein Human EPHB1 (EPH receptor B1) for Antibody Discovery

Cat. No.: **MP0116Q**
This product is for research use only and is not intended for diagnostic use.

This product is a 60.2 kDa Human EPHB1 membrane protein expressed in Sf9. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

## Product Specifications

**Host Species**
Human

**Target Protein**
EPHB1

**Protein Length**
Partial

**Protein Class**
Druggable Genome, Protein Kinase, Transmembrane

**Molecular Weight**
60.2 kDa

**TMD**
1

**Sequence**
MALDYLLLLLLASAVAAMEETLMDTRTATAELGWTANPASGWEEVSGYDENLNTIRTYQVCNVFEPNQNNWLLTTFINRRGAHRIY
YRLPPPMDCPAALHQLMLDCWQKDRNSRPRFAEIVNTLDKMIRNPASLKTVATITAVPSQPLLDRSIPDFTAFTTVDDWLSAIKMVQ

## Product Description

**Expression Systems**
Sf9

**Tag**
C-DDK

**Form**
Powder

**Purity**
> 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer**

50mM Tris-HCl, pH8.0, 100mM glycine, 10% glycerol

**Storage**

Store at +4°C for up to one week or several months at -80°C

## Target

**Target Protein**

EPHB1

**Full Name**

EPH receptor B1

**Introduction**

Ephrin receptors and their ligands, the ephrins, mediate numerous developmental processes, particularly in the nervous system. Based on their structures and sequence relationships, ephrins are divided into the ephrin-A (EFNA) class, which are anchored to the membrane by a glycosylphosphatidylinositol linkage, and the ephrin-B (EFNB) class, which are transmembrane proteins. The Eph family of receptors are divided into 2 groups based on the similarity of their extracellular domain sequences and their affinities for binding ephrin-A and ephrin-B ligands. Ephrin receptors make up the largest subgroup of the receptor tyrosine kinase (RTK) family. The protein encoded by this gene is a receptor for ephrin-B family members.

**Alternative Names**

ELK; EPHT2; Hek6; NET; ephrin type-B receptor 1; EK6; eph tyrosine kinase 2; neuronally-expressed EPH-related tyrosine kinase; soluble EPHB1 variant 1; tyrosine-protein kinase receptor EPH-2; EPH-like kinase 6

**Gene ID**

2047

**UniProt ID**

P54762

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