# EPHB1
# Recombinant Human EPHB1 Active GST-His

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|---|---|---|---|
| **Catalog No.** | CRE019 | **Quantity:** | 50 µg |

**Alternate Names:** ELK, EPHT2, FLJ37986, Hek6, NET, eph tyrosine kinase 2, ephrin receptor EphB1, soluble EPHB1 variant 1

**Description:** Human EPHB1 Amino acids $R_{565}$-$A_{984}$ (as in GenBank entry NM_004441.2)*, N-terminally fused to GST-$HIS_6$-Thrombin cleavage site.
*Sequence may contain documented polymorphisms
Detailed sequence on request.

**Concentration:** 0.500 µg/µl

**Gene ID:** 2047

**Protein Accession No:** NM_004441.2

**Source:** Baculovirus infected Sf9 cells

**Molecular Weight:** Theoretical $MW_{Fusion\ Protein}$: 76,906 Da

**Formulation:** 50 mM Tris-HCl + pH 8.0 + 100 mM NaCl + 5 mM DTT + 15 mM reduced glutathione, 20% glycerol

**Purification:** One-step affinity purification using GSH-agarose

**Product Identity:** EPHB1 was confirmed as human EPHB1 by mass spectroscopy LC-ESI-MS/MS

**Specific Activity:** 72 pmol/µg×min
Method for determination of $K_m$ value and specific activity:
• Assay conditions:
60 mM HEPES-NaOH, pH 7.5
3 mM $MgCl_2$
3 mM $MnCl_2$
3 µM Na-orthovanadate
1.2 mM DTT
2.5 µg / 50 µl $PEG_{20.000}$
ATP (variable)
Substrate: $Poly(Glu,Tyr)_{4:1}$
(Sigma P-0275), 1 µg / 50 µl
Recombinant EPHB1: 50 ng / 50 µl
• Filter binding assay
MAFC membrane (Millipore)

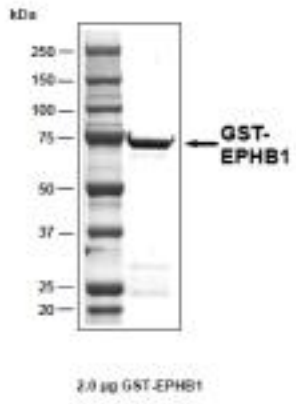
**Cell Sciences**®
480 Neponset Street
Bldg 12A
Canton, MA 02021

Toll Free: 888-769-1246
Phone: 781-828-0610
Fax: 781-828-0542

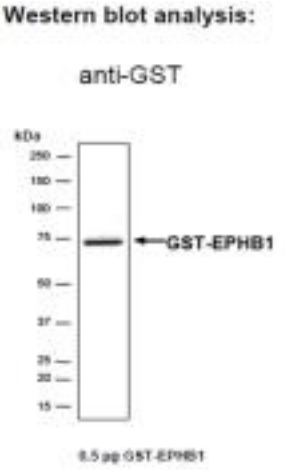
E-mail: info@cellsciences.com
Website: www.cellsciences.com

**Storage & Stability:** Store in working aliquots at -80°C. **Avoid repeated freeze-thaw cycles.**

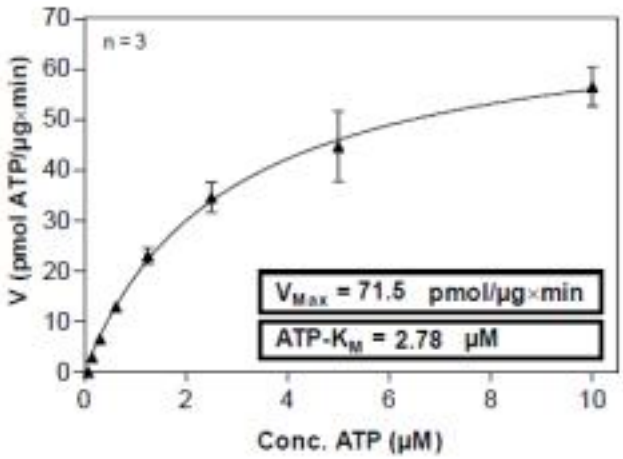
Coomassie stain:




Western blot analysis:




Determination of Km value for ATP:



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