

# Human EPHB1 Knockdown Cell Lysate

Cat. No. EPHB1-158HKCL Lot. No. (See product label)

## SPECIFICATION

|                         |  |
|-------------------------|--|
| <b>Product Overview</b> | WB-validated EPHB1 Knockdown HeLa Cell Lysate  |
| <b>Species</b>          | Human  |
| <b>Source</b>           | HeLa   |
| <b>Description</b>      | <p>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.</p> |
| <b>Form</b>             | Cell-Tissue Lysis buffer   |
| <b>Molecular Mass</b>   | 110 kDa  |
| <b>Notes</b>            | <p>Instruction of use: This knockdown cell lysate should be paired with wild-type HeLa cell lysate for use. For Western blotting, we recommend running wild-type and knockdown lysates on the same gel, and loading each well with equal volume and equal amount of total proteins.</p>  |

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| <b>Storage</b>          | Store at -20 centigrade for two years.  |
| <b>Concentration</b>    | Lot-specific  |
| <b>Shipping</b>         | Blue Ice  |
| <b>Components</b>       | 1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg EPHB1 KD HeLa cell lysate |
| <b>Protein Families</b> | Druggable Genome, Protein Kinase, Transmembrane                                 |
| <b>Protein Pathways</b> | Axon guidance   |
| <b>Lysate QC</b>        | RT-qPCR; Western Blotting (WB)  |

## GENE INFORMATION

|                        |  |
|------------------------|--|
| <b>Gene Name</b>       | EPHB1 EPH receptor B1 [ Homo sapiens (human) ]   |
| <b>Official Symbol</b> | EPHB1  |
| <b>Synonyms</b>        | EPHB1; EPH receptor B1; EphB1, EPHT2; ephrin type-B receptor 1; Hek6; EK6; EPH-like kinase 6; eph tyrosine kinase 2; soluble EPHB1 variant 1; tyrosine-protein kinase receptor EPH-2; neuronally-expressed EPH-related tyrosine kinase; ELK; NET; EPHT2; FLJ37986; |
| <b>Gene ID</b>         | 2047   |
| <b>mRNA Refseq</b>     | NM_004441  |
| <b>Protein Refseq</b>  | NP_004432  |

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| <b>MIM</b> | 600600 |
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| <b>UniProt ID</b> | P54762 |
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