

# Product Information

## Recombinant Anti-Human ephb2 Antibody Fab Fragment

Cat. No.: **MOM-18352-F(E)**

This product is for research use only and is not intended for diagnostic use.

### Product Overview

Recombinant Mouse Antibody Fab Fragment specifically binds to Human EPHB2, expressed in Chinese Hamster Ovary cells(CHO)

### Antigen Description

Receptor for members of the ephrin-B family. Phosphorylates ARHGEF15, leading to its ubiquitination and degradation by the proteasome which promotes EFNB1-dependent synapse formation. Can function in aspects of retinal ganglion cell axon guidance to the optic disk even when lacking its tyrosine kinase domain. Acts as a tumor suppressor.

### Specific Activity

Tested positive against native antigen.

### Target

EPHB2

### Immunogen

Recombinant His-tagged fragment corresponding to amino acids 17-200 of Human Eph receptor  
B2AAVEETLMDSTTATAELGWMVHPPSGWEEVSGYDENMNTI  
RTYQVCNVFESSQNNWLRTKFIRRRGAHRIHVEMKFSVRD  
CSSIPSVPGSCKETFNLYYYEADFDSATKTFPNWMENPWV KVDTIAADESFSQVDLGGRMKINTEVRSFGPVSRSRG

### Source

Mouse

### Species Reactivity

Human

### Type

Fab

### Expression Host

CHO

### Purity

>95.0% as determined by Analysis by RP-HPLC & analysis by SDS-PAGE.

### Applications

Suitable for use in FC, IP, ELISA, Neut, FuncS, IF and most other immunological methods.

### Storage

Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing of samples.

## ANTIGEN GENE INFORMATION

### Gene Name

[EPHB2 EPH receptor B2 \[ Homo sapiens \]](#)

### Official Symbol

EPHB2

### Synonyms

EPHB2; EPH receptor B2; DRT, EphB2 , EPHT3, ERK; ephrin type-B receptor 2; Hek5; Tyro5; EPH-like kinase 5; eph tyrosine kinase 3; elk-related tyrosine kinase; protein-tyrosine kinase HEK5; tyrosine-protein kinase TYRO5; renal carcinoma antigen NY-REN-47; tyrosine-protein kinase receptor EPH-3; developmentally-regulated Eph-related tyrosine kinase; DRT; EK5; ERK; CAPB; PCBC; EPHT3; MGC87492

### Gene ID

[2048](#)

### mRNA Refseq

[NM\\_004442](#)

### Protein Refseq

[NP\\_004433](#)

### MIM

[600997](#)

### UniProt ID

P29323

### Chromosome Location

1p36.1-p35

### Pathway

Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem; Axon guidance, organism-specific biosystem; Developmental Biology, organism-specific biosystem; EPHB forward signaling, organism-specific biosystem; Ephrin B reverse signaling, organism-specific biosystem; EphrinB-EPHB pathway, organism-specific biosystem;

### Function

ATP binding; ephrin receptor activity; nucleotide binding; protein tyrosine kinase activity; receptor activity; transmembrane-ephrin receptor activity; transmembrane-ephrin receptor activity;