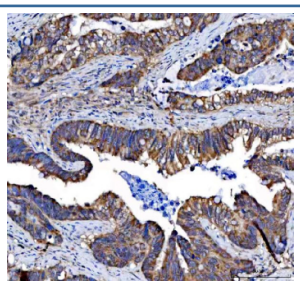
Ephrin Receptor B3 Antibody / EPHB3 (RQ8119)

Catalog No.	Formulation	Size
RQ8119	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

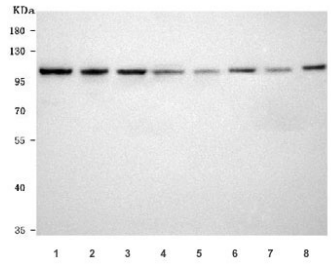
Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P54753
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Direct ELISA : 0.1-0.5ug/ml
Limitations	This Ephrin Receptor B3 antibody is available for research use only.

IHC staining of FFPE human glioma tissue with Ephrin Receptor B3 antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human colon cancer tissue with Ephrin Receptor B3 antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) human A431, 2) human HaCaT, 3) rat brain, 4) rat stomach, 5) rat lung, 6) mouse brain, 7) mouse stomach and 8) mouse lung tissue lysate with Ephrin Receptor B3 antibody. Predicted molecular weight ~110 kDa but may be observed at higher molecular weights due to glycosylation.

Description

Ephrin Receptor B3 (EPHB3) is a member of the Eph receptor tyrosine kinase family, which mediates cellÃ¢Â€Â“cell communication through binding to membrane-bound ephrin-B ligands. EPHB3 plays critical roles in developmental processes such as axon guidance, tissue boundary formation, and neural progenitor positioning. Upon ligand binding, EPHB3 activates bidirectional signaling that influences cytoskeletal dynamics, adhesion, and cell migration.

EPHB3 is expressed in the developing nervous system, intestinal epithelium, and select adult tissues, where it contributes to spatial organization and cell fate determination. Its signaling is involved in maintaining tissue architecture and guiding cellular interactions in both embryonic and mature systems, making it a useful marker in developmental and cellular signaling studies.

The **Ephrin Receptor B3 antibody** is a valuable tool for detecting endogenous EPHB3 in applications such as western blot, immunohistochemistry, and immunofluorescence. Researchers use the Ephrin Receptor B3 antibody from NSJ Bioreagents to study receptor expression, track tissue-specific localization, and investigate ephrin-mediated signaling events. With high specificity and consistent performance, the Ephrin Receptor B3 antibody supports detailed analysis of cell communication, neural development, and receptor tyrosine kinase pathways.

Application Notes

Optimal dilution of the Ephrin Receptor B3 antibody should be determined by the researcher.

Immunogen

E. coli-derived recombinant human protein (amino acids H275-Q554) was used as the immunogen for the Ephrin Receptor B3 antibody.

Storage

After reconstitution, the Ephrin Receptor B3 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.