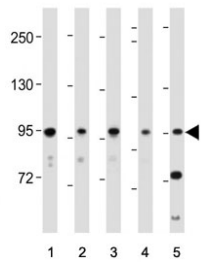
Ephrin type-A receptor 4 Antibody / EphA4 (F55081)

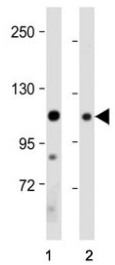
Catalog No.	Formulation	Size
F55081-0.2ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.2 ml
F55081-0.05ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.05 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	SAS precipitation
UniProt	P54764
Applications	Western Blot : 1:1000-1:2000
Limitations	This Ephrin type-A receptor 4 antibody is available for research use only.



Western blot testing of 1) human HeLa, 2) HUVEC, 3) human NCI-H460, 4) human brain and 5) mouse NIH 3T3 cell lysate with Ephrin type-A receptor 4 antibody. Expected molecular weight: ~109 kDa and ~104 kDa (two isoforms) but the protein may be observed at higher molecular weights due to glycosylation.



Western blot testing of 1) human brain and 2) mouse brain tissue lysate with Ephrin type-A receptor 4 antibody. Expected molecular weight: ~109 kDa and ~104 kDa (two isoforms) but the protein may be observed at higher molecular weights due to glycosylation.

Description

Ephrin type-A receptor 4, also known as Eph4A, is a member of the Eph receptor family. These receptors are involved in mediating cell-to-cell communication and are critical for various physiological processes such as tissue patterning, neuronal development, and immune response. One of the key functions of Eph4A is its role in axon guidance during neuronal development. Studies have shown that Eph4A is essential for establishing proper neuronal connections in the developing brain. Disruption of Eph4A signaling has been linked to various neurological disorders, highlighting the importance of this receptor in brain development. In addition to its role in neuronal development, Eph4A has also been implicated in cancer progression. Aberrant expression of Eph4A has been observed in various types of cancer, and targeting this receptor has shown promising results in inhibiting tumor growth and metastasis. Furthermore, Eph4A has been shown to play a role in immune response regulation. By modulating the activity of immune cells, Eph4A can influence the inflammatory response and contribute to the maintenance of immune homeostasis.

Application Notes

The stated application concentrations are suggested starting points. Titration of the Ephrin type-A receptor 4 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 875-904 from the human protein was used as the immunogen for the Ephrin type-A receptor 4 antibody.

Storage

Aliquot the Ephrin type-A receptor 4 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.