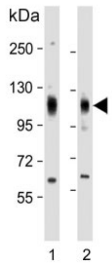
EphA4 Antibody / Ephrin type-A receptor 4 (F54444)

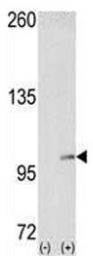
Catalog No.	Formulation	Size
F54444-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54444-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

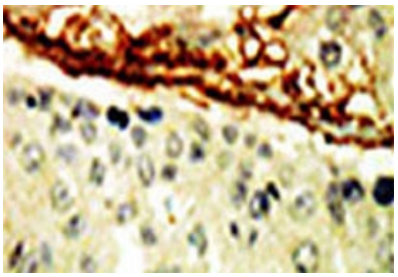
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	SAS precipitation
UniProt	P54764
Applications	Immunohistochemistry (FFPE) : 1:25 Flow Cytometry : 1:25 (1x10e6 cells) Western Blot : 1:500-1:2000
Limitations	This EphA4 antibody is available for research use only.



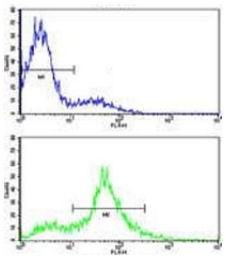
Western blot testing of human 1) HeLa and 2) NCI-H460 cell lysate with EphA4 antibody. Expected molecular weight: ~109 kDa and ~104 kDa (two isoforms) but the protein may be observed at higher molecular weights due to glycosylation.



Western blot testing of 1) non-transfected and 2) transfected 293 cell lysate with EphA4 antibody.



IHC testing of FFPE human breast cancer tissue with EphA4 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



Flow cytometry testing of human CCRF-CEM cells with EphA4 antibody; Blue=isotype control, Green= EphA4 antibody.

Description

Protein kinases are enzymes that transfer a phosphate group from a phosphate donor, generally the g phosphate of ATP, onto an acceptor amino acid in a substrate protein. By this basic mechanism, protein kinases mediate most of the signal transduction in eukaryotic cells, regulating cellular metabolism, transcription, cell cycle progression, cytoskeletal rearrangement and cell movement, apoptosis, and differentiation. With more than 500 gene products, the protein kinase family is one of the largest families of proteins in eukaryotes. The family has been classified in 8 major groups based on sequence comparison of their tyrosine (PTK) or serine/threonine (STK) kinase catalytic domains. The tyrosine kinase (TK) group is mainly involved in the regulation of cell-cell interactions such as differentiation, adhesion, motility and death. There are currently about 90 TK genes sequenced, 58 are of receptor protein TK (e.g. EGFR, EPH, FGFR, PDGFR, TRK, and VEGFR families), and 32 of cytosolic TK (e.g. ABL, FAK, JAK, and SRC families).

Application Notes

The stated application concentrations are suggested starting points. Titration of the EphA4 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 40-70 from the human protein was used as the immunogen for the EphA4 antibody.

Storage

Aliquot the EphA4 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.