ephrin-A3 (G-11): sc-398331



The Power to Question

BACKGROUND

The Eph subfamily represents the largest group of receptor protein kinases identified to date. There is increasing evidence that they are involved in central nervous system function and in development. Ligands for Eph receptors include ephrin-A1 (LERK-1/B61), identified as a ligand for the EphA2 (Eck) receptor; ephrin-A2 (ELF-1), identified as a ligand for the EphA3 and EphA4 (Sek) receptors; ephrin-A3 (LERK-3), identified as a ligand for EphA5 (Ehk1) and EphA3 (Hek) receptors; ephrin-A4 (LERK-4), identified as a ligand for the EphA3 receptor; ephrin-A5 (AL-1), identified as a ligand for EphA5 (REK7); ephrin-B1 (LERK-2), identified as a ligand for the EphB1 (Elk) and EphB2 (Cek5) receptors; ephrin-B2 (LERK-5), identified as a ligand for the EphB1, EphB3 (Cek10) and EphB2 receptors; and ephrin-B3 (LERK-8), identified as a ligand for EphB1.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: EFNA3 (human) mapping to 1q22; Efna3 (mouse) mapping to 3 F1.

SOURCE

ephrin-A3 (G-11) is a mouse monoclonal antibody raised against amino acids 149-238 mapping at the C-terminus of ephrin-A3 of human origin.

PRODUCT

Each vial contains 200 $\mu g \, lg G_1$ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

ephrin-A3 (G-11) is recommended for detection of ephrin-A3 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for ephrin-A3 siRNA (h): sc-39430, ephrin-A3 siRNA (m): sc-39431, ephrin-A3 shRNA Plasmid (h): sc-39430-SH, ephrin-A3 shRNA Plasmid (m): sc-39431-SH, ephrin-A3 shRNA (h) Lentiviral Particles: sc-39430-V and ephrin-A3 shRNA (m) Lentiviral Particles: sc-39431-V.

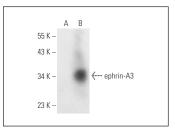
Molecular Weight of ephrin-A3: 32-38 kDa.

Positive Controls: ephrin-A3 (h4): 293T Lysate: sc-110072.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgGκ BP-HRP: sc-516102 or m-lgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker[™] Molecular Weight Standards: sc-2035, UltraCruz* Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-lgGκ BP-FITC: sc-516140 or m-lgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz* Mounting Medium: sc-24941 or UltraCruz* Hard-set Mounting Medium: sc-359850.

DATA



ephrin-A3 (G-11): sc-398331. Western blot analysis of ephrin-A3 expression in non-transfected: sc-117752 (A) and human ephrin-A3 transfected: sc-110072 (B) 293T whole cell bestes

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.