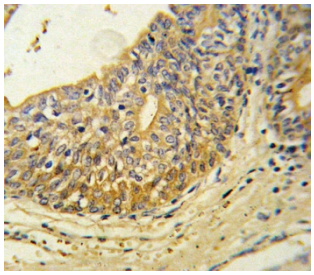
Endothelin B Receptor Antibody / EDNRB (F54884)

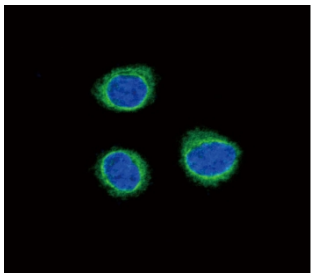
Catalog No.	Formulation	Size
F54884-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54884-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

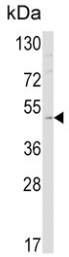
Availability	1-3 business days
Species Reactivity	Human, Mouse
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Purified
UniProt	P24530
Applications	Flow cytometry: 1:10-1:50 (1x10e6 cells) Immunofluorescence: 1:10-1:50 Immunohistochemistry (FFPE): 1:10-1:50 Western blot: 1:500-1:1000
Limitations	This Endothelin B Receptor antibody is available for research use only.



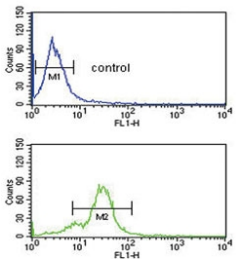
IHC testing of FFPE human prostate carcinoma tissue with Endothelin B Receptor antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



Immunofluorescent staining of human HEK292 cells with Endothelin B Receptor antibody (green) and DAPI nuclear stain (blue).



Western blot testing of mouse cerebellum tissue lysate with Endothelin B Receptor antibody. Expected molecular weight of EDNRB is ~49â€“59 kDa (predicted), but the receptor consistently migrates around ~45 kDa on SDS-PAGE, often appearing as a single or doublet band depending on glycosylation state. This pattern is well-documented in peer-reviewed studies.



Flow cytometry testing of human MDA-MB-435 cells with Endothelin B Receptor antibody; Blue=isotype control, Green= Endothelin B Receptor antibody.

Description

EDNRB is a G protein-coupled receptor which activates a phosphatidylinositol-calcium second messenger system. Its ligand, endothelin, consists of a family of three potent vasoactive peptides: ET1, ET2, and ET3. Studies suggest that the multigenic disorder, Hirschsprung disease type 2, is due to mutations in the endothelin receptor type B gene.

Application Notes

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

Immunogen

A portion of amino acids 409-439 from the human protein was used as the immunogen for the Endothelin B Receptor antibody.

Storage

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

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