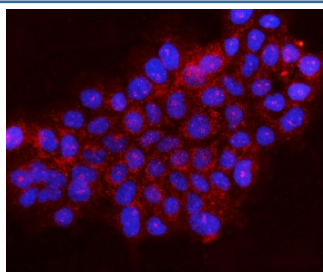


Gephyrin Antibody / GPHN (RQ6558)

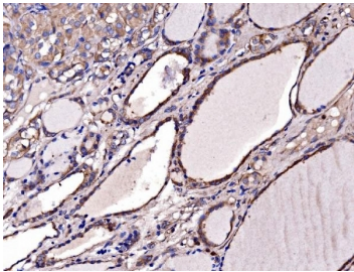
Catalog No.	Formulation	Size
RQ6558	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

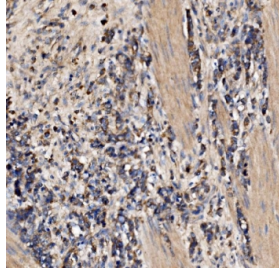
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat, Monkey
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q9NQX3
Localization	Cytoplasmic
Applications	Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Immunofluorescence : 5ug/ml Direct ELISA : 0.1-0.5ug/ml
Limitations	This Gephyrin antibody is available for research use only.



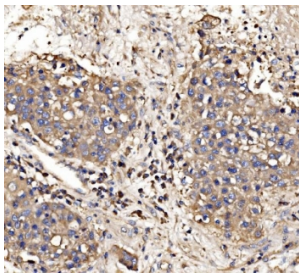
Immunofluorescent staining of FFPE human A431 cells with Gephyrin antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



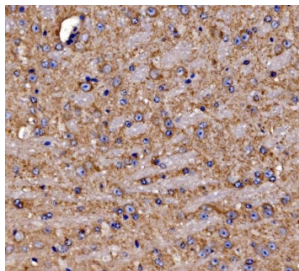
IHC staining of FFPE human papillary thyroid carcinoma tissue with Gephyrin antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



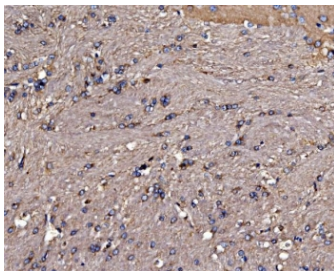
IHC staining of FFPE human stomach cancer tissue with Gephyrin antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



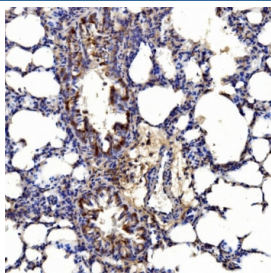
IHC staining of FFPE human liver cancer tissue with Gephyrin antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



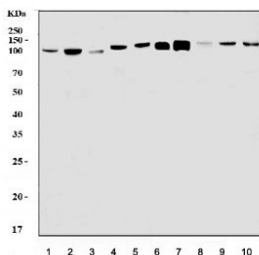
IHC staining of FFPE mouse brain tissue with Gephyrin antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE rat brain tissue with Gephyrin antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE rat lung tissue with Gephyrin antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) human HeLa, 2) human HepG2, 3) human A549, 4) monkey COS-7, 5) human Jurkat, 6) rat brain, 7) mouse brain, 8) mouse kidney, 9) mouse lung and 10) mouse Neuro-2a cell lysate with Gephyrin antibody. Predicted molecular weight: 80-83 kDa but commonly observed at ~93 kDa.

Description

Gephyrin is a protein that in humans is encoded by the GPHN gene. This gene encodes a neuronal assembly protein that anchors inhibitory neurotransmitter receptors to the postsynaptic cytoskeleton via high affinity binding to a receptor subunit domain and tubulin dimers. In nonneuronal tissues, the encoded protein is also required for molybdenum cofactor biosynthesis. Mutations in this gene may be associated with the neurological condition hyperplexia and also lead to molybdenum cofactor deficiency. Numerous alternatively spliced transcript variants encoding different isoforms have been described; however, the full-length nature of all transcript variants is not currently known.

Application Notes

Optimal dilution of the Gephyrin antibody should be determined by the researcher.

Immunogen

An E. coli-derived human protein (amino acids K148-L736) was used as the immunogen for the Gephyrin antibody.

Storage

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