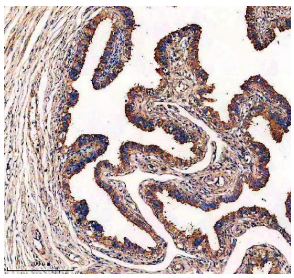
EFHC1 Antibody / EF-hand domain-containing protein 1 Antibody (FY13578)

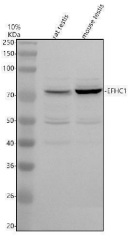
Catalog No.	Formulation	Size
FY13578	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

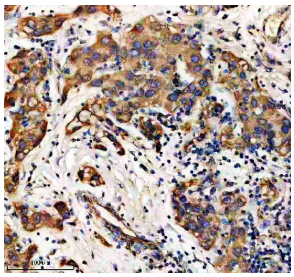
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Buffer	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
UniProt	Q5JVL4
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 2-5ug/ml ELISA: 0.1-0.5 ug/ml
Limitations	This EFHC1 Antibody / EF-hand domain-containing protein 1 Antibody is supplied exclusively for research use.



EFHC1 Antibody by IHC in human fallopian tube. Immunohistochemistry of paraffin-embedded human fallopian tube using EF-hand domain-containing protein 1 Antibody shows brown staining in the tubal epithelial lining and portions of the underlying stromal tissue. Nuclei are counterstained blue with hematoxylin. Sections underwent heat-mediated antigen retrieval in EDTA buffer at pH 8.0, blocking with 10% goat serum, and primary antibody incubation at 2 ug/mL overnight at 4oC. Detection used a peroxidase-conjugated secondary antibody and DAB chromogen.



EFHC1 Antibody by WB in rat and mouse testis. Western blot analysis using EF-hand domain-containing protein 1 Antibody detects a band near 74 kDa in rat testis (lane 1) and mouse testis (lane 2), compared with a calculated molecular weight of approximately 74 kDa. Reduced lysates containing 30 ug total protein per lane were resolved by 10% SDS-PAGE and transferred to nitrocellulose. The membrane was blocked with 5% nonfat milk, followed by primary antibody incubation at 0.5 ug/mL overnight at 4oC. Bound antibody was detected using an HRP-conjugated secondary antibody and chemiluminescent substrate.



EFHC1 Antibody by IHC in human liver carcinoma. Immunohistochemistry of paraffin-embedded human liver carcinoma using EF-hand domain-containing protein 1 Antibody shows brown staining within clusters of malignant hepatocellular cells, with comparatively less labeling in adjacent stromal areas. Nuclei are counterstained blue with hematoxylin. Sections underwent heat-mediated antigen retrieval in EDTA buffer at pH 8.0, blocking with 10% goat serum, and primary antibody incubation at 2 ug/mL overnight at 4oC. Detection used a peroxidase-conjugated secondary antibody and DAB chromogen.

Description

EFHC1 Antibody / EF-hand domain-containing protein 1 Antibody detects EFHC1, an EF-hand-containing protein commonly called myoclonin-1. EF-hand motifs are structural elements that can participate in calcium binding, although the presence of an EF-hand sequence does not establish the full range of calcium-dependent activities for every protein. EFHC1 has been studied in relation to neuronal development, intracellular calcium signaling, and the organization of microtubule-associated structures. Its precise physiological functions remain less completely characterized than those of many classical calcium-binding proteins.

Some experimental studies have implicated EFHC1 in the regulation of cell division, neuronal migration, and ciliary or flagellar biology. These observations suggest links between intracellular architecture and developmental processes, but individual mechanisms may differ across model systems. Calcium signals are tightly controlled in neurons because they affect electrical excitability, vesicle release, and cellular responses to activity. EFHC1 has been proposed to influence aspects of this signaling environment, yet it should not be equated with a conventional ion channel or calcium pump. Understanding its function requires distinguishing direct biochemical interactions from downstream changes observed after altered gene expression. The EF-hand domain-containing protein 1 Antibody designation refers to this same protein target.

Variants in EFHC1 have been reported in families with juvenile myoclonic epilepsy and related seizure phenotypes. The clinical interpretation of individual variants is complex, and not every reported sequence change is necessarily pathogenic. Genetic evidence, functional findings, and family segregation patterns must be considered together when assessing a particular variant. EFHC1 remains of interest because of its potential connections to neuronal excitability and cellular organization. NSJ Bioreagents includes EFHC1 among targets relevant to neuronal and calcium-associated signaling biology. An EFHC1 Antibody provides a means of examining the molecular functions associated with EFHC1.

Explore related research targets in our Neuroscience Antibodies collection.

Application Notes

The appropriate working dilution of the EFHC1 Antibody / EF-hand domain-containing protein 1 Antibody should be optimized by the end user.

Immunogen

The EFHC1 Antibody was generated using e. coli-derived human EFHC1 recombinant protein (amino acids D50-E589).

Storage

Once reconstituted, refrigerate the EFHC1 Antibody at 4oC for no longer than one month. For extended storage, freeze aliquots at -20oC for up to six months and avoid repeated freeze-thaw cycles.

Alternate Names

EFHC1 antibody, EF-hand domain-containing protein 1 antibody, EF-hand domain containing 1 antibody, EJM antibody, EJM1 antibody, JAE antibody, Myoclonin 1 antibody

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