10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

TTYH1 Antibody
Catalog # ASC11492

Specification

TTYH1 Antibody - Product Information

Application	**WB, ICC**
Primary Accession	Q9H313
Other Accession	NP_001005367, 53831989
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Application Notes	**TTYH1 antibody can be used for detection of TTYH1 by Western blot at 1 - 2 µg/mL. Antibody can also be used for immunocytochemistry starting at 5 µg/mL.**

TTYH1 Antibody - Additional Information

Gene ID **57348**

Target/Specificity
TTYH1; TTYH1 antibody is human specific. Multiple isoforms of TTYH1 are known to exist.

Reconstitution & Storage
TTYH1 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Precautions
TTYH1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

TTYH1 Antibody - Protein Information

Name TTYH1

Function
Probable chloride channel. May be involved in cell adhesion (By similarity).

Cellular Location
Cell membrane; Multi-pass membrane protein

Tissue Location
Expressed in brain, eye, ovary and testis, and at lower levels in muscle, placenta, liver and lung

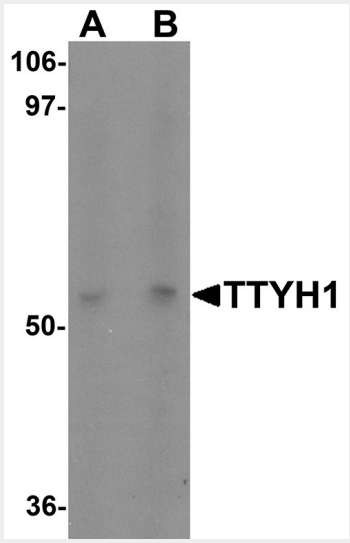
TTYH1 Antibody - Protocols

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

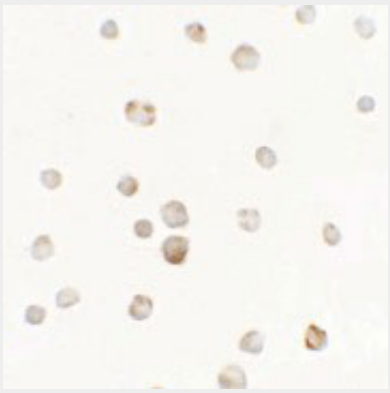
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TTYH1 Antibody - Images



Western blot analysis of TTYH1 in Raji cell lysate with TTYH1 antibody at (A) 1 and (B) 2 µg/mL.



Immunocytochemistry of TTYH1 in Raji cells with TTYH1 antibody at 5 µg/mL.

TTYH1 Antibody - Background

TTYH1 Antibody: TTYH1 is a member of the tweety family of proteins, a family of chloride anion channels containing five transmembrane regions. TTYH1 is a Ca2+-independent, volume-sensitive large conductance chloride (Cl-) channel. TTYH1 is primarily expressed in neural tissue and upregulated in astrocytoma, glioma, and several other cancers. Recent experiments have shown that TTYH1 is an integral endoplasmic reticulum (ER) membrane protein involved in cell proliferation and is thought to play an essential role in embryonic cell growth, possibly through the Ca2+ storage/release process in ER membranes during early development.

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

TTYH1 Antibody - References

Campbell HD, Kamei M, Caludianos C, et al. Human and mouse homologues of the Drosophila melanogaster tweety (tty) gene: a novel gene family encoding predicted transmembrane proteins. Genomics 2000; 68:89-92.
Matthews CA, Shaw JE, Hooper JA, et al. Expression and evolution of the mammalian brain gene Ttyh1. J. Neurochem. 100:693-707
Kumada T, Yamanaka Y, Kitano A, et al. Ttyh1, a Ca2+-binding protein localized to the endoplasmic reticulum, is required for early embryonic development. Dev. Dyn. 2010; 239:2233-45.