

TTYH2 Antibody
Catalog # ASC11493**Specification**

TTYH2 Antibody - Product Information

Application	WB, IHC, IF
Primary Accession	Q9BSA4
Other Accession	NP_116035 , 53988385
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application Notes	TTYH2 antibody can be used for detection of TTYH2 by Western blot at 1 µg/mL. Antibody can also be used for immunohistochemistry starting at 2.5 µg/mL. For immunofluorescence start at 2.5 µg/mL.

TTYH2 Antibody - Additional InformationGene ID **94015****Target/Specificity**

TTYH2; At least four isoforms of TTYH2 are known to exist; this antibody will only detect the two longest isoforms. This antibody is predicted to not cross-react with other TTYH family members.

Reconstitution & Storage

TTYH2 antibody can be stored at 4°C for three months and -20°C, 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

TTYH2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

TTYH2 Antibody - Protein Information**Name** TTYH2**Synonyms** C17orf29**Function**

Probable large-conductance Ca(2+)-activated chloride channel. May play a role in Ca(2+) signal transduction. May be involved in cell proliferation and cell aggregation.

Cellular Location

Cell membrane; Multi-pass membrane protein

Tissue Location

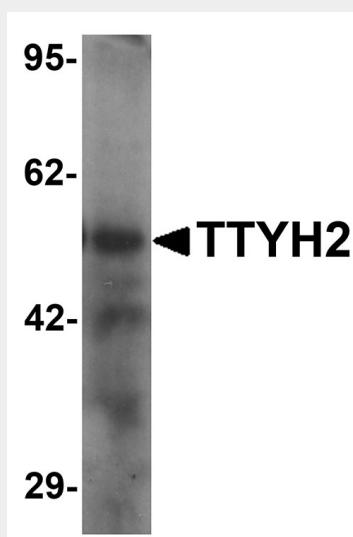
Expressed at higher level in brain and testis and at lower levels in heart, ovary, spleen and peripheral blood leukocytes. Up-regulated in 13 of 16 renal cell carcinoma samples examined. Up-regulated in colon carcinoma

TTYH2 Antibody - Protocols

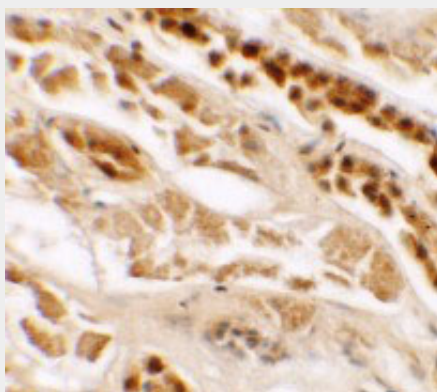
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

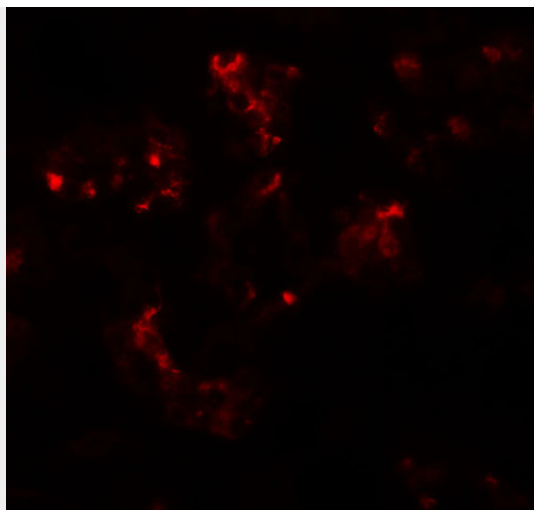
TTYH2 Antibody - Images



Western blot analysis of TTYH2 in human kidney tissue lysate with TTYH2 antibody at 1 µg/ml



Immunohistochemistry of TTYH2 in human kidney tissue with TTYH2 antibody at 2.5 µg/mL.



Immunofluorescence of TTYH2 in human kidney tissue with TTYH2 antibody at 20 µg/mL.

TTYH2 Antibody - Background

TTYH2 Antibody: TTYH2 is a member of the tweety family of proteins, a family of chloride anion channels containing five transmembrane regions. TTYH2 is a Ca^{2+} -activated large conductance chloride (Cl^-) channel and may play a role in kidney tumorigenesis. It is also upregulated in colon carcinoma and is thought to play a role in cell proliferation and cell aggregation, suggesting that TTYH2 may play a role in regulating both proliferation and metastatic potentials of colorectal cancer. The ubiquitin-protein ligase Nedd4-2 binds to and ubiquitinates TTYH2, thereby regulating its cell surface expression and total cellular levels.

TTYH2 Antibody - References

Rae FK, Hooper JD, Eyre HJ, et al. TTYH2, a human homologue of the *Drosophila melanogaster* gene tweety, is located on 17q24 and upregulated in renal cell carcinoma. *Genomics* 2001; 77:200-7.

Toiyama Y, Mizoguchi A, Kimura K, et al. TTYH2, a human homologue of the *Drosophila melanogaster* gene tweety, is up-regulated in colon carcinoma and involved in cell proliferation and cell aggregation. *World J. Gastroenterol.* 2007; 13:2717-21

He Y, Hryciw DH, Carroll ML, et al. The ubiquitin-protein ligase Nedd4-2 differentially interacts with and regulates members of the Tweety family of chloride ion channels. *J. Biol. Chem.* 2008; 283:24000-10.