

**TMEFF2 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP58099****Specification****TMEFF2 Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	<a href="#">Q9UIK5</a>
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	37 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human TMEFF2
Epitope Specificity	301-374/374
Isotype	IgG
<b>Purity</b>	
affinity purified by Protein A	
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Isoform 1: Membrane; Single-pass type I membrane protein (Potential). Isoform 2: Membrane; Single-pass type I membrane protein (Potential). Isoform 3: Secreted. Belongs to the tomoregulin family. Contains 1 EGF-like domain. Contains 2 Kazal-like domains.
SIMILARITY	N-glycosylated. Contains chondroitin sulfate glycosaminoglycans. A soluble form (TMEFF2-ECD) is produced by proteolytic shedding. This shedding can be induced by phorbol ester or proinflammatory cytokines such as TNFalpha, and is mediated by ADAM17.
Post-translational modifications	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Important Note	

**Background Descriptions**

TMEFF2 is a growth factor implicated in the progression of prostate cancer. It is highly expressed in the brain and may act as a survival factor for mesencephalic and hippocampal neurons.

**TMEFF2 Polyclonal Antibody - Additional Information**

**Gene ID** 23671

**Other Names**

Tomoregulin-2, TR-2, Hyperplastic polyposis protein 1, Transmembrane protein with EGF-like and

two follistatin-like domains, TMEFF2, HPP1, TENB2, TPEF

**Target/Specificity**

Highly expressed in adult and fetal brain, spinal cord and prostate. Expressed in all brain regions except the pituitary gland, with highest levels in amygdala and corpus callosum. Expressed in the pericryptal myofibroblasts and other stromal cells of normal colonic mucosa. Expressed in prostate carcinoma. Down-regulated in colorectal cancer. Present in Alzheimer disease plaques (at protein level). Isoform 3 is expressed weakly in testis and at high levels in normal and cancerous prostate.

**Dilution**

<span class = "dilution\_WB">WB~~1:1000</span><br \><span class = "dilution\_IHC-P">IHC-P~~N/A</span><br \><span class = "dilution\_IHC-F">IHC-F~~N/A</span><br \><span class = "dilution\_IF">IF~~1:50~200</span><br \><span class = "dilution\_E">E~~N/A</span>

**Format**

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

**Storage**

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

**TMEFF2 Polyclonal Antibody - Protein Information**

**Name** TMEFF2

**Synonyms** HPP1, TENB2, TPEF

**Function**

May be a survival factor for hippocampal and mesencephalic neurons. The shedded form up-regulates cancer cell proliferation, probably by promoting ERK1/2 phosphorylation.

**Cellular Location**

[Isoform 1]: Membrane; Single-pass type I membrane protein [Isoform 3]: Secreted.

**Tissue Location**

Highly expressed in adult and fetal brain, spinal cord and prostate. Expressed in all brain regions except the pituitary gland, with highest levels in amygdala and corpus callosum. Expressed in the pericryptal myofibroblasts and other stromal cells of normal colonic mucosa. Expressed in prostate carcinoma. Down-regulated in colorectal cancer. Present in Alzheimer disease plaques (at protein level). Isoform 3 is expressed weakly in testis and at high levels in normal and cancerous prostate.

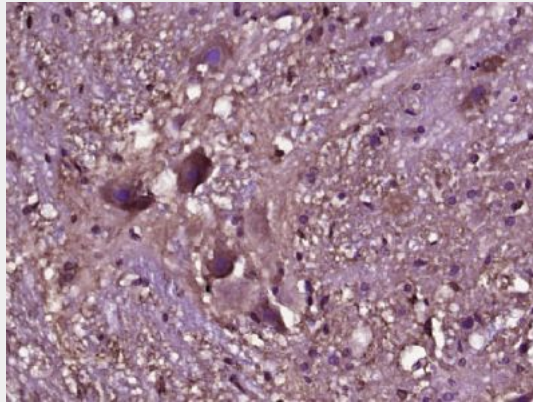
**TMEFF2 Polyclonal Antibody - Protocols**

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

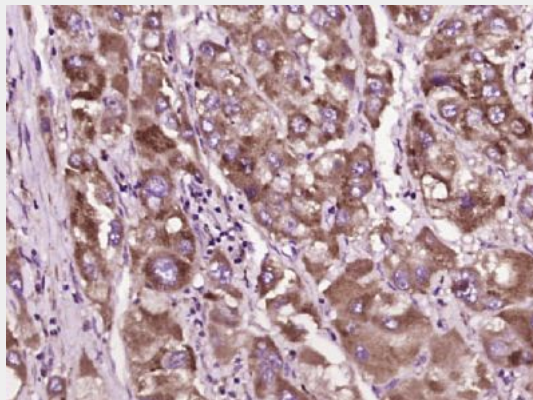
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)

- [Cell Culture](#)

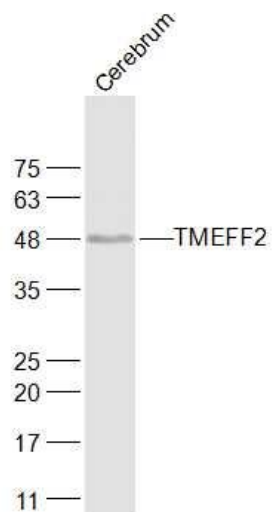
## **TMEFF2 Polyclonal Antibody - Images**



Paraformaldehyde-fixed, paraffin embedded (rat spinal tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (TMEFF2) Polyclonal Antibody, Unconjugated (bs-3849R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human liver carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (TMEFF2) Polyclonal Antibody, Unconjugated (bs-3849R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



**Sample:**

Cerebrum (Rat) Lysate at 40 ug

Primary: Anti-TMEFF2 (bs-3849R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 37 kD

Observed band size: 48 kD