

## TMEFF2/Tomoregulin-2 Protein, Human (HEK293, His)

<b>Cat. No.:</b>	HY-P700470
<b>Synonyms:</b>	TMEFF2; transmembrane protein with EGF like and two follistatin like domains 2; TR; HPP1; TPEF; TR-2; TENB2; CT120.2; tomoregulin-2; cancer/testis antigen family 120, member 2; hyperplastic polyposis protein 1; transmembrane protein TENB2; transmembrane protein with EGF-like and two follistatin-like domains
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	Q9UIK5 (F41-V320)
<b>Gene ID:</b>	23671
<b>Molecular Weight:</b>	47 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> F P T S L S D C Q T   P T G W N C S G Y D   D R E N D L F L C D   T N T C K F D G E C L R I G D T V T C V   C Q F K C N N D Y V   P V C G S N G E S Y   Q N E C Y L R Q A A C K Q Q S E I L V V   S E G S C A T D A G   S G S G D G V H E G   S G E T S Q K E T S T C D I C Q F G A E   C D E D A E D V W C   V C N I D C S Q T N   F N P L C A S D G K S Y D N A C Q I K E   A S C Q K Q E K I E   V M S L G R C Q D N   T T T T T K S E D G H Y A R T D Y A E N   A N K L E E S A R E   H H I P C P E H Y N   G F C M H G K C E H S I N M Q E P S C R   C D A G Y T G Q H C   E K K D Y S V L Y V   V P G P V R F Q Y V </pre>
<b>Biological Activity</b>	Measured by its binding ability in a functional ELISA. Immobilized Human TMEFF2 at 2 µg/mL can bind Anti-TMEFF2 recombinant antibody, the EC <sub>50</sub> is ≤7 ng/mL.
<b>Appearance</b>	Lyophilized powder
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	TMEFF2/Tomoregulin-2 Protein emerges as a potential survival factor for hippocampal and mesencephalic neurons, indicating its role in supporting the viability of neural cells. In addition to its neuroprotective function, the shedded form of
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TMEFF2/Tomoregulin-2 is implicated in up-regulating cancer cell proliferation, potentially by facilitating ERK1/2 phosphorylation. This dual role suggests a complex involvement in both neuronal survival and cancer cell proliferation, highlighting the versatility of TMEFF2 in diverse cellular contexts. Further exploration of the mechanisms underlying TMEFF2's impact on neuronal and cancer cell functions could provide valuable insights into its specific roles and potential therapeutic implications in neural and cancer biology.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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