

Product datasheet for TA306865

KIAA0195 (TMEM94) Rabbit Polyclonal Antibody

Product data:

OriGene Technologies, Inc.

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Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 1 - 2 ug/mL, ICC: 5 ug/mL, IF: 20 ug/mL
Reactivity:	Human
Host:	Rabbit
lsotype:	lgG
Clonality:	Polyclonal
Immunogen:	FRMPD4 antibody was raised against an 18 amino acid peptide from near the center of human FRMPD4.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	Affinity chromatography purified via peptide column
Conjugation:	Unconjugated
Storage:	Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	transmembrane protein 94
Database Link:	<u>AAI43747</u> <u>Entrez Gene 9772 Human</u> <u>Q12767</u>



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GRIGENE KIAA0195 (TMEM94) Rabbit Polyclonal Antibody – TA306865

Background:The FERM and PDZ domain containing (FRMPD) protein family consists of four proteins that
contain a FERM (Four-point-one, erzin, radixin, moesin) domain and at least one PDZ (PSD-
95/Discs large/Zonula-occuldens-1) domain. FRMPD4, also known as Preso, also contains
another protein interaction domain termed WW (domain with two conserved Trp residues) at
its amino terminus. It was identified through a yeast two-hybrid screen using the PDZ domain
of PSD-95 as bait and is highly expressed in multiple regions of the brain and is enriched in
the postsynaptic density (PSD) fractions. Overexpression of FRMPD4 in cultured hippocampal
neurons significantly increased the linear density of dendritic spines without changing their
length and width; conversely, knockdown experiments using RNAi caused a decrease in spine
density, indicating FRMPD4 positively regulates dendritic spine density but not morphology.
The decreased level of FRMPD4 also resulted in reduced levels of excitatory synaptic
transmission, suggesting that FRMPD4 is required for maintenance of excitatory synaptic
transmission.

Synonyms:

TMEM94

Product images:



Western blot analysis of FRMPD4 in SK-N-SH cell lysate with FRMPD4 antibody at (A) 1 and (B) 2 ug/ml.

Immunohistochemistry of FRMPD4 in human brain tissue with FRMPD4 antibody at 5 ug/ml.

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Immunofluorescence of FRMPD4 in human brain tissue with FRMPD4 antibody at 20 ug/mL.

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