

**Trek1 Blocking Peptide**  
**Catalog # PBV10387b****Specification**

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**Trek1 Blocking Peptide - Product Information**

|                   |                          |
|-------------------|--------------------------|
| Primary Accession | <a href="#">P97438</a>   |
| Other Accession   | <a href="#">AAV48996</a> |
| Gene ID           | <b>16526</b>             |
| Calculated MW     | <b>46844</b>             |

**Trek1 Blocking Peptide - Additional Information****Gene ID** 16526**Application & Usage**

The peptide is used for blocking the antibody activity of Trek-1. It usually blocks the antibody activity completely in Western blot analysis by incubating the peptide with equal volume of antibody for 30-60 minutes at 37°C.

**Other Names**

Potassium channel subfamily K member 2, Outward rectifying potassium channel protein TREK-1, TREK-1 K(+) channel subunit, Two pore potassium channel TPKC1, Kcnk2

**Target/Specificity**

Trek1

**Formulation**

50 µg (0.5 mg/ml) in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA and 0.02% thimerosal.

**Reconstitution & Storage**

-20 °C

**Background Descriptions****Precautions**

Trek1 Blocking Peptide is for research use only and not for use in diagnostic or therapeutic procedures.

**Trek1 Blocking Peptide - Protein Information****Name** Kcnk2**Function**

Ion channel that contributes to passive transmembrane potassium transport. Reversibly converts between a voltage-insensitive potassium leak channel and a voltage-dependent outward rectifying

potassium channel in a phosphorylation-dependent manner. In astrocytes, forms mostly heterodimeric potassium channels with KCNK1, with only a minor proportion of functional channels containing homodimeric KCNK2 (PubMed:<a href="http://www.uniprot.org/citations/24496152" target="\_blank">24496152</a>). In astrocytes, the heterodimer formed by KCNK1 and KCNK2 is required for rapid glutamate release in response to activation of G-protein coupled receptors, such as F2R and CNR1 (PubMed:<a href="http://www.uniprot.org/citations/24496152" target="\_blank">24496152</a>).

**Cellular Location**

[Isoform 1]: Cell membrane; Multi-pass membrane protein. Note=Location at the cell membrane requires interaction with KCNK1. Is not detected at the cell membrane when KCNK1 is absent.

**Tissue Location**

Detected in hippocampus astrocytes (at protein level) (PubMed:24496152). High expression in brain and lung. Also detected in kidney, heart and skeletal muscle. Not detected in liver In the brain, highest expression in olfactory bulb, hippocampus and cerebellum.

**Trek1 Blocking Peptide - 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](#)

**Trek1 Blocking Peptide - Images**