

## Product datasheet for **AP26423AF-L**

### **KCNK2 (4-14) Rabbit Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	ELISA, WB
Recommended Dilution:	<b>ELISA:</b> The antibody (1:500,000 diluted) can detect the TREK-1 peptide coated on ELISA plate at 100ng/well. <b>Western blot:</b> Dilute approx. 1:3,000 to detect the 47kDa TREK-1 in Jurkat cell extract.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	A synthetic peptide derived from the amino sequence 4-14 of human TREK-1, conjugated with KLH
Specificity:	This antibody reacts with the 47kDa TREK-1 in Jurkat cell extract.
Formulation:	0.01M PBS, pH 7.4 State: Azide Free State: Lyophilized Ig fraction
Reconstitution Method:	Restore with double distilled water to adjust the final concentration to 1.00 mg/ml.
Purification:	Protein G affinity
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 month or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	potassium two pore domain channel subfamily K member 2
Database Link:	<a href="#">Entrez Gene 3776 Human O95069</a>



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**Background:**

TWIK-related potassium channel 1 (TREK-1), also known as K2P2.1, is a two pore domain gated potassium channel that is involved with pain reception. TREK-1 is highly expressed in small sensory neurons and is extensively colocalized with TRPV1. TREK-1 is sensitive to noxious stimuli including extracellular pH, temperature, mechanical force, osmotic pressure and other stimuli. TREK-1 is one of the targets for pain mediator and anaesthesia drug.

**Synonyms:**

KCNK2, TREK, TREK1, Potassium channel subfamily K member 2, Two pore potassium channel TPKC1

**Product images:**

Western blot analysis of Jurkat cell extract using rabbit anti-trek1.