



Rabbit Anti-Human TREK-1 (K2p2.1) Polyclonal Antibody Datasheet

Product Name: pAb Rabbit anti-Human TREK-1 (K2p2.1)

Catalogue No.: AI80006A

Quantity: 0.1 mg/vial

Description: Rabbit anti- human Twik-related potassium channel 1 protein (TREK-1) polyclonal antibody

Purification: Protein G affinity purified

Product Type: Primary antibody

Target Protein: TREK-1

Immunogen: A synthetic peptide (SASRERPGYTA) derived from the amino acid residue 4-14 of human TREK-1, conjugated with KLH for immunization.

Specificity: This antibody reacts with the 47kDa TREK-1 in Jurkat cell extract.

Species Reactivity: Human and other species with consensus TREK-1 peptide (SASRERPGYTA)

Host: Rabbit

Formulation: Lyophilized in pH 7.4, 0.01M PBS.

Reconstitution: Double distilled water is recommended to adjust the final concentration to 1.00mg/mL.

Storage: Store at -20°C

Research Area: Life science research, stem cell factor signalling, cancer research

Background: TWIK-related potassium channel 1(TREK-1), also known as K_{2p}2.1, 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.

Applications: **ELISA:** The antibody (1:500,000 diluted) can detect the TREK-1 peptide coated on ELISA plate at 100ng/well.

Western blot: Dilute approx. 1:3,000 for using in Western blot to detect the 47kDa TREK-1 in Jurkat cell extract.



Fig.1 Western blot analysis of Jurkat cell extract using rabbit anti-trek1.

References: If research is published using this product, please inform Anogen in order to cite the reference on this datasheet. Anogen will provide one unit of product in the same category as gratitude.

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