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### Product Information

**Size:**

50ul

**Reactivity:**

Human

**Source:**

Rabbit

**Isotype:**

IgG

**Applications:**

ELISA, IHC

**Recommended dilutions:**

ELISA:1:2000-1:10000, IHC:1:20-1:200

**Protein Background:**

Non-selective calcium permeant cation channel probably involved in osmotic sensitivity and mechanosensitivity. Activation by exposure to hypotonicity within the physiological range exhibits an outward rectification. Also activated by low pH, citrate and phorbol esters. Increase of intracellular Ca<sup>2+</sup> potentiates currents. Channel activity seems to be regulated by a calmodulin-dependent mechanism with a negative feedback mechanism. Promotes cell-cell junction formation in skin keratinocytes and plays an important role in the formation and/or maintenance of functional intercellular barriers. Acts as a regulator of intracellular Ca<sup>2+</sup> in synoviocytes. Plays an obligatory role as a molecular component in the nonselective cation channel activation induced by 4- $\alpha$ -phorbol 12,13-didecanoate and hypotonic stimulation in synoviocytes and also regulates production of IL-8.

**Gene ID:**

TRPV4

**Uniprot**

Q9HBA0

**Synonyms:**

Transient receptor potential cation channel subfamily V member 4 (TrpV4) (Osm-9-like TRP channel 4) (OTRPC4) (Transient receptor potential protein 12) (TRP12) (Vanilloid receptor-like channel 2) (Vanilloid receptor-like protein 2) (VRL-2) (Vanilloid receptor-related osmotically-activated channel) (VR-OAC), TRPV4, VRL2 VROAC

**Immunogen:**

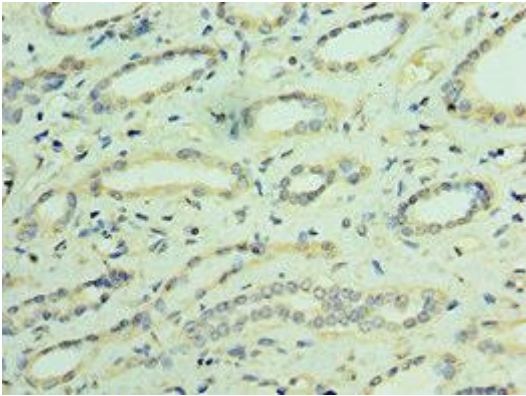
Recombinant Human Transient receptor potential cation channel subfamily V member 4 protein (1-230AA).

**Storage:**

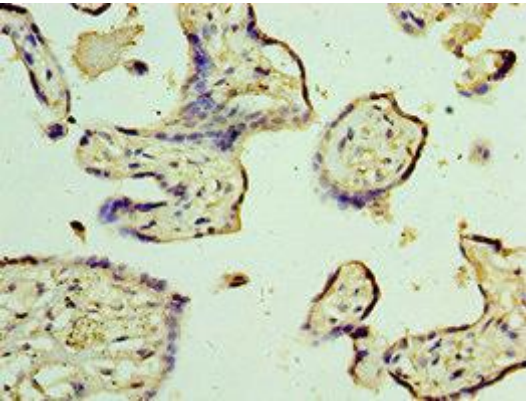
PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

## Product Images

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Immunohistochemistry of paraffin-embedded human kidney tissue using PACO43771 at dilution of 1:100.



Immunohistochemistry of paraffin-embedded human placenta tissue using PACO43771 at dilution of 1:100.