Human Vanilloid R-like 3/TRPV3 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF4167

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human VRL-3 in immunohistochemistry.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	KLH-coupled human Vanilloid R-like 3 synthetic peptide KEMVPLMGKR Accession # Q8NET8
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

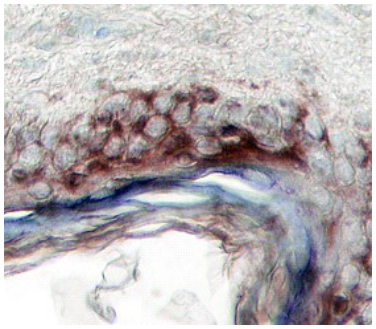
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Immunohistochemistry	5-15 µg/mL	See Below

DATA

Immunohistochemistry



Vanilloid R-like 3/TRPV3 in Human Skin. Vanilloid R-like 3/TRPV3 was detected in immersion fixed paraffin-embedded sections of human skin using 15 µg/mL Human Vanilloid R-like 3/TRPV3 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4167) overnight at 4 °C. Tissue was stained with the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Vanilloid Receptor-like 3 (VRL-3), also known as transient receptor potential cation channel subfamily V3 (TRPV3) is a 70 kDa member of the vanilloid receptor/TRP gene family. It is expressed on keratinocytes and neurons, and is physiologically responsive to changes in temperature between 22-40° C. Human TRPV3 is 790 amino acids (aa) in length. It is a 6 transmembrane domain protein that contains an N- and C-terminal cytoplasmic region. Three ankyrin repeats occur in the extended N-terminal cytoplasmic region (aa 214-369). There is one alternate splice form that shows a 6 aa substituton for the C-terminal 31 amino acids. Over amino acids 6-15, human TRPV3 shares 90% aa sequence identity with mouse and canine TRPV3.

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