

Product datasheet for **TA336871**

VR1 (TRPV1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	Immunohistochemistry
Reactivity:	Human, Mouse, Rat, Primate
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	A synthetic peptide made to an N-terminal portion of the rat TRPV1 protein (between residues 1-50) [UniProt O35433]
Formulation:	PBS with 30% Glycerol, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	transient receptor potential cation channel subfamily V member 1
Database Link:	NP_542435 Entrez Gene 83810 Rat Entrez Gene 193034 Mouse Entrez Gene 7442 Human Q8NER1
Background:	TRPV1 (transient receptor potential cation channel subfamily V member 1, capsaicin receptor, vanilloid receptor, Vr1) is a polymodal nociceptor activated by heat, vanilloids (capsaicin), and protons. It is primarily expressed in the dorsal root ganglia and peripheral nerve endings. TRPV1 antagonists are a potential therapeutic target for many suffering chronic physical and neuropathic pain. However, due to its other role in the regulation of body temperature, these therapies are currently experiencing a barrier. On the other hand, TRPV1 agonists can be used to desensitize nerves after activation, thereby reducing pain. The research around TRPV1 is broad, where it is studied in fields such as anxiety, pain, oxidative stress, taste, inflammation, depression, respiratory disease, and various psychiatric disorders.



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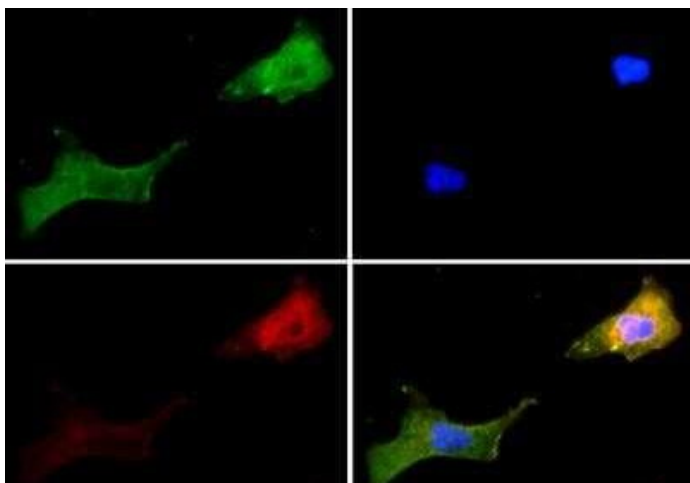
Synonyms: VR1

Note: This TRPV1 antibody is useful for Western Blot and Immunocytochemistry/Immunofluorescence. In Western Blot, a band is seen ~100 kDa representing TRPV1. In ICC/IF, plasma membrane staining is observed in Ntera-2 cells. This antibody is not recommended for IHC-paraffin embedded sections.

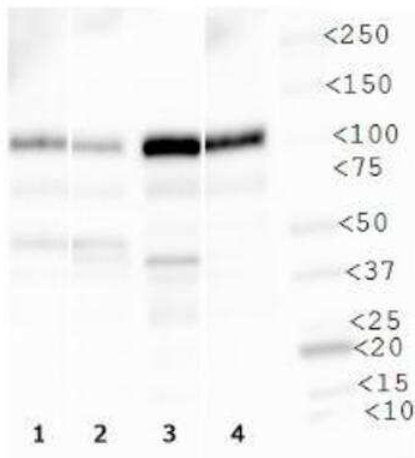
Protein Families: Druggable Genome, Ion Channels: Transient receptor potential, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

Product images:



Immunocytochemistry/Immunofluorescence: Vanilloid R1/TRPV1 Antibody TA336871 - TRPV1 Antibody TA336871 - TRPV1 antibody was tested in Ntera-2 cells with FITC (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and DyLight 550 (red).



Western Blot: Vanilloid R1/TRPV1 Antibody TA336871 - Analysis of TRPV1 in following cell lysates: (1) Ntera2, (2) HepG2, (3) MCF7, and (4) Cos7.