# VR1 (Phospho Ser502) Rabbit pAb

CatalogNo: YP1679

## Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB

MW
- 92kD (Calculated)

Isotype
- IgG

## Recommended Dilution Ratios

**WB 1:500-2000**

## Storage

| | |
|---|---|
| **Storage*** | -15°C to -25°C/1 year(Do not lower than -25°C) |
| **Formulation** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |

## Basic Information

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|---|---|
| **Clonality** | Polyclonal |

## Immunogen Information

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|---|---|
| **Immunogen** | Synthesized peptide derived from human VR1 (Phospho-Ser502) |
| **Specificity** | This antibody detects endogenous levels of VR1 (Phospho-Ser502) at Human, Mouse,Rat.The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):RPsMK |

## Target Information

**Gene name** TRPV1 VR1

**Protein Name** VR1 (Phospho-Ser502)

| Organism | Gene ID | UniProt ID |
|---|---|---|
| Human | 7442; | Q8NER1; |
| Mouse | 193034; | Q704Y3; |
| Rat | 83810; | O35433; |

**Cellular Localization** Cell junction, synapse, postsynaptic cell membrane ; Multi-pass membrane protein . Cell projection, dendritic spine membrane ; Multi-pass membrane protein . Cell membrane ; Multi-pass membrane protein . Mostly, but not exclusively expressed in postsynaptic dendritic spines. .

**Tissue specificity** Widely expressed at low levels. Expression is elevated in dorsal root ganglia. In skin, expressed in cutaneous sensory nerve fibers, mast cells, epidermal keratinocytes, dermal blood vessels, the inner root sheet and the infundibulum of hair follicles, differentiated sebocytes, sweat gland ducts, and the secretory portion of eccrine sweat glands (at protein level).

**Function** Domain:The association domain (AD) is necessary for self-association.,enzyme regulation:Channel activity is activated via the interaction with PIRT and phosphatidylinositol-4,5-bisphosphate (PIP2). Both PIRT and PIP2 are required to activate channel activity.,Function:Receptor-activated non-selective calcium permeant cation channel involved in detection of noxious chemical and thermal stimuli. Seems to mediate proton influx and may be involved in intracellular acidosis in nociceptive neurons. May be involved in mediation of inflammatory pain and hyperalgesia. Sensitized by a phosphatidylinositol second messenger system activated by receptor tyrosine kinases, which involves PKC isozymes and PCL.,miscellaneous:Responses evoked by low pH and heat, and capsaicin can be antagonized by capsazepine.,PTM:Phosphorylation by PKA reverses capsaicin-induced dephosphorylation at multiple sites, probably including Ser-117 as a major phosphorylation site. Phoshphorylation by CAMKII seems to regulate binding to vanilloids. Phosphorylated and modulated by PKCM and probably PKCZ. Dephosphorylation by calcineurin seems to lead to receptor desensitization and phosphorylation by CAMKII recovers activity.,similarity:Belongs to the transient receptor family. TrpV subfamily.,similarity:Contains 6 ANK repeats.,subunit:Self-associates. Probably homotetramer. May also form a heteromeric channel with TRPV3. Interacts with calmodulin, PIRT, PRKCM and CSK. Interacts with PRKCG and NTRK1, probably by forming a trimeric complex.,tissue specificity:Widely expressed at low levels. Expression is elevated in dorsal root ganglia. In skin, expressed in cutaneous sensory nerve fibers, mast cells, epidermal keratinocytes, dermal blood vessels, the inner root sheet and the infundibulum of hair follicles, differentiated sebocytes, sweat gland ducts, and the secretory portion of eccrine sweat glands (at protein level).,

## Validation Data

## Contact information


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|---|---|
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