

## Anti-Phospho-TRPV1 (S502) Antibody

Catalog Number: P00128

### About TRPV1

The transient receptor potential cation channel, subfamily V, member 1 (TRPV1), also known as the capsaicin receptor is a protein which in humans is encoded by the TRPV1 gene. TRPV1 (also called Vanilloid receptor type 1) is a ligand-gated nonselective cation channel that is considered to be an important integrator of various pain stimuli such as endogenous lipids, capsaicin, heat, and low pH. In addition to expression in primary afferents, TRPV1 is also expressed in the CNS. Cui M et al. (2006) demonstrate that TRPV1 receptors in the CNS play an important role in pain mediated by central sensitization. And the significant CNS penetration is necessary for a TRPV1 antagonist to produce broad-spectrum analgesia. And TRPV1 also participates in normal bladder function and is essential for normal mechanically evoked purinergic signaling by the urothelium.

### Overview

Product Name	Anti-Phospho-TRPV1 (S502) Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Phospho-TRPV1 (S502) Antibody catalog # P00128. Tested in WB, IHC applications. This antibody reacts with Human, Mouse, Rat.
Application	IHC, WB
Clonality	Polyclonal
Formulation	500 ug/ml antibody with PBS, 0.02% NaN <sub>3</sub> , 1 mg stabilizing protein and 50% glycerol This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	12 months from date of receipt at -20°C as supplied. 6 months at 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	Q8NER1

### Technical Details

Immunogen	A synthesized peptide derived from human VR1 around the phosphorylation site of Ser502.
Form	Liquid
Concentration	500 ug/ml
Purification	Protein A affinity purified.
Suggested Dilutions	Western blot, 1:500-2000

Immunohistochemistry, 1:50-200

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