

Basic Information

Product Name	Anti-TRPV3 Antibody
Gene Name	TRPV3
Source	Rabbit
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB
Contents	500 ug/ml antibody with PBS , 0.02% NaN ₃ , 1 mg BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human TRPV3(757-773aa RRTDFNFIQDSSRNNSK), different from the related rat and mouse sequences by four amino acids.
concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	100KD
Dilution Ratios	Western blot(WB):1:500-2000

Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

Background Information

TRPV3(Transient Receptor Potential Cation Channel Subfamily V Member 3), also known as VRL3, is a human gene encoding the protein of the same name. The TRPV3 protein belongs to a family of nonselective cation channels that function in a variety of processes, including temperature sensation and vasoregulation. Peier et al.(2002) localized the TRPV3 gene to a BAC clone mapped to chromosome 17p13. They mapped the mouse gene to chromosome 11B4. Peier et al.(2002) stably expressed mouse Trpv3 in Chinese hamster ovary cells and assayed electrophysiologic activity by whole cell voltage-clamp techniques. They determined that Trpv3 is a cation-permeable channel activated by warm and hot temperatures. Xu et al.(2002) showed that increasing temperature from approximately 22 to 40 degrees Celsius in mammalian cells transfected with human TRPV3 elevated intracellular calcium by activating a nonselective cationic conductance.

Selected Validation Data

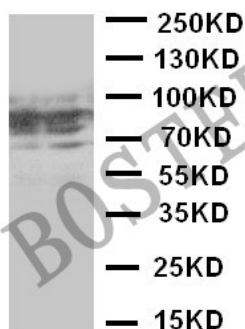


Figure 1. Western blot analysis of anti-TRPV3 antibody (BA2875-2). The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: Rat brain tissue lysates, Use rabbit anti-TRPV3 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for TRPV3 at approximately 90KD. The expected band size for TRPV3 is at 90KD.