Anti-TRPV6
(Anti-Transient Receptor Potential Channel V6; Anti-CaT1)
produced in rabbit, affinity isolated antibody

Catalog Number T 3201

Product Description
Anti-TRPV6 was developed in rabbit using a synthetic peptide (C)NRGLEDGESWEYQI corresponding to residues 712-725 of human TRPV6 as the immunogen. This sequence has 13/14 residues identical in rat and mouse. The antibody was affinity isolated on immobilized immunogen.

Anti-TRPV6 recognizes TRPV6 from human prostate cancer cell line PC3 by immunoblotting.

Transient receptor potential (TRP) cation channels are a large family of plasma membrane, non-selective cation channels that are expressed in excitable and non-excitable cells. The TRPV subfamily consists of six members, TRPV1-6. TRPV1-4 channels are thermosensitive, nonselective cation channels that are also activated by a variety of pain-causing stimuli. TRPV5 (ECaC) and TRPV6 (CaT1) are epithelial Ca\(^{2+}\) channels, form constitutively open channels, and share a high degree of homology (about 66%) with differences in the N- and C-terminus. In contrast to other members of the TRP family, TRPV5 and TRPV6 are highly Ca\(^{2+}\) selective and mediate the Ca\(^{2+}\) influx in 1,25-dihydroxyvitamin D(3)-responsive epithelia where they are assumed to have an important role in Ca\(^{2+}\) reabsorption. TRPV5 is preferentially expressed in kidney, while TRPV6 is highly expressed in the placenta, small intestine and kidney and was found to be upregulated in prostate cancer tissue.

Reagent
The antibody is supplied as lyophilized powder from phosphate buffered salin, pH 7.4, containing 1% BSA and 0.05% sodium azide as preservative.

Preparation Instructions
Reconstitute the lyophilized vial with 0.05 or 0.2 ml deionized water, depending on package size. Further dilutions should be made using a carrier protein such as BSA (1%).

Storage/Stability
Lyophilized powder can be stored intact at room temperature for several weeks. For extended storage, it should be stored at −20 °C or below. The reconstituted solution can be stored at 2-8 °C for up to 2 weeks. For longer storage, freeze in working aliquots. Repeated freezing and thawing, or storage in “frost-free” freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Centrifuge all antibody preparations before use. Working dilution samples should be discarded if not used within 12 hours.

Product Profile
The recommended working dilution is 1:200 for immunoblotting. It is recommended to add 0.5% Tween®-20 to the antibody solution.

Note: In order to obtain best results in different techniques and preparations we recommend determining optimal working concentration by titration test.

References


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