

Datasheet for ABIN3029230
anti-TRPC3 antibody (AA 836-851)

3 Images

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Overview

Quantity:	100 µg
Target:	TRPC3
Binding Specificity:	AA 836-851
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TRPC3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Amino acids 836-851 (HSFNSILNQPTRYQQI) were used as the immunogen for this TRPC3 antibody (100% homologous in human, mouse and rat).
Isotype:	IgG
Purification:	Antigen affinity

Target Details

Target:	TRPC3
Alternative Name:	TRPC3 (TRPC3 Products)
Background:	Transient receptor potential cation channel, subfamily C, member 3, also known as TRP3, is expressed in megakaryocytic cell lines and therefore may play a role in calcium homeostasis in megakaryocytes and platelets. Using patch-clamp and whole-cell recordings of human

Target Details

embryonic kidney cells transfected with TRPC3, the protein behaved as an inositol phosphate and diacylglycerol-gated channel, but not as a store-operated channel. The TRPC3 gene, but not other TRPC genes, was damaged in several mutant T-cell lines with defective calcium influx, resulting in expression of truncated transcripts. Reduced calcium channel activity could be reversed by restoration of wildtype TRPC3. It is part of endogenous calcium channels in T lymphocytes and contributes to T-cell receptor-dependent calcium entry into T cells. Neuropathologic studies showed impaired growth and differentiation of dendritic arbors of the Purkinje cells, suggesting that normal TRPC3 plays a role in the development and survival of cerebellar Purkinje cells.

UniProt: [Q13507](#)

Application Details

Application Notes: The stated application concentrations are suggested starting amounts. Titration of the TRPC3 antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 0.5-1 µg/mL,IHC (Paraffin): 0.5-1 µg/mL

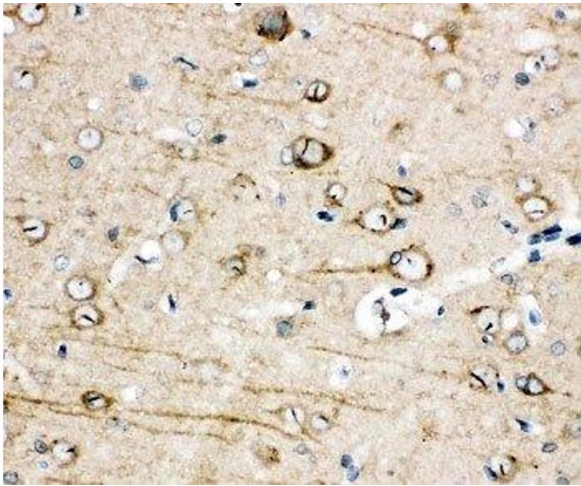
Restrictions: For Research Use only

Handling

Buffer: 0.5 mg/mL if reconstituted with 0.2 mL sterile DI water

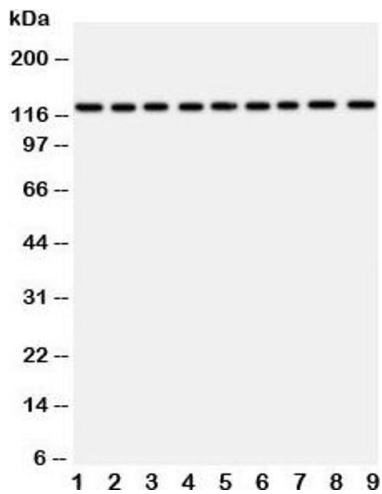
Storage: -20 °C

Storage Comment: After reconstitution, the TRPC3 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.



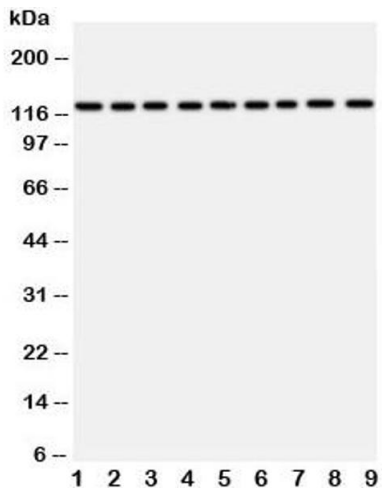
Immunohistochemistry

Image 1. IHC-P: TRPC3 antibody testing of rat brain tissue



Western Blotting

Image 2. Western blot testing of TRPC3 antibody and Lane 1: rat liver; 2: (r) lung; 3: (r) intestine; 4: (r) ovary; 5: human U87; 6: (h) A549; 7: (h) COLO320; 8: (h) SW620; 9: (h) HeLa



Western Blotting

Image 3. Western blot testing of TRPC3 antibody and Lane 1: rat liver