

Datasheet for ABIN3043494  
**anti-TRPC7 antibody (AA 716-862)**[2 Images](#)[1 Publication](#)[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	TRPC7
Binding Specificity:	AA 716-862
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TRPC7 antibody is un-conjugated
Application:	Western Blotting (WB)

## Product Details

Purpose:	Rabbit IgG polyclonal antibody for Short transient receptor potential channel 7(TRPC7) detection. Tested with WB in Human,Mouse.
Immunogen:	E.coli-derived human TRP 7 recombinant protein (Position: K716-I862). Human TRP 7 shares 95% amino acid (aa) sequence identity with mouse TRP 7.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	<p>Rabbit IgG polyclonal antibody for Short transient receptor potential channel 7(TRPC7) detection. Tested with WB in Human,Mouse.</p> <p>Gene Name: transient receptor potential cation channel, subfamily C, member 7</p> <p>Protein Name: Short transient receptor potential channel 7</p>
Purification:	Immunogen affinity purified.

## Target Details

Target:	TRPC7
Alternative Name:	TRPC7 ( <a href="#">TRPC7 Products</a> )
Background:	<p>Transient receptor potential cation channel, subfamily C, member 7, also known as TRPC7, is a human gene encoding a protein of the same name. Using a cosmid/BAC contig, this gene is mapped to chromosome 21q22.3. TRPC7 is the most abundantly expressed long TRPC in peripheral blood and in some blood cell lines. The protein encoded by this gene is a calcium-permeable cation channel that is regulated by free intracellular ADP-ribose. The encoded protein is activated by oxidative stress and confers susceptibility to cell death.</p> <p>Synonyms: Capacitative calcium channel TRPC7 antibody cation channel, subfamily C, member 7 antibody hTRP7 antibody KNP3 antibody Likley ortholog of mouse transient receptor potential cation channel subfamily C member 7 antibody mTRP7 antibody Putative capacitative calcium channel antibody Short transient receptor potential channel 7 antibody Transient receptor potential cation channel subfamily C member 7 antibody transient receptor potential-related channel 7, a novel putative Ca<sup>2+</sup> channel protein antibody Transient receptor protein 7 antibody TRP 7 antibody TRP-7 antibody TRP7 protein antibody TRPC 7 antibody TRPC7 antibody Trpc7 transient receptor potential cation channel, subfamily C, member 7 antibody TRPC7_HUMAN antibody TRPM2 antibody Trp8 antibody</p>
Gene ID:	57113

## Application Details

Application Notes:	<p>WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, The detection limit for TRP 7 is approximately 0.2 ng/lane under reducing conditions.</p> <p>Notes: Tested Species: Species with positive results.</p> <p>Other applications have not been tested. Optimal dilutions should be determined by end users.</p>
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

## Handling

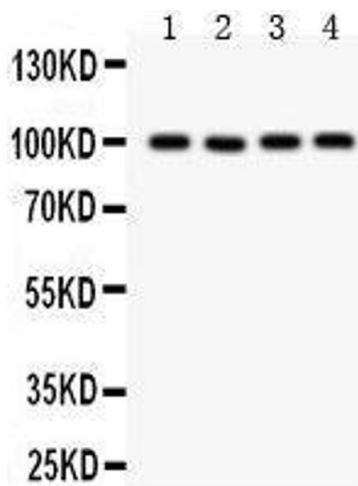
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL

## Handling

Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

## Publications

Product cited in:	<p>Yang, Gao, Wu, Yu, Li, Meng, Li, Yan, Jin: "Epigallocatechin-3-gallate attenuates neointimal hyperplasia in a rat model of carotid artery injury by inhibition of high mobility group box 1 expression." in: <b>Experimental and therapeutic medicine</b>, Vol. 14, Issue 3, pp. 1975-1982, (2017) (<a href="#">PubMed</a>).</p> <p>Yu, Yu, Liu, Yu, Liu, Liu, Su, Jiang, Chen: "Ethyl pyruvate attenuated coxsackievirus B3-induced acute viral myocarditis by suppression of HMGB1/RAGE/NF-KB pathway." in: <b>SpringerPlus</b>, Vol. 5, pp. 215, (2016) (<a href="#">PubMed</a>).</p> <p>Qin, Niu, Wang, Xu, Qiao, Gu: "Heparanase induced by advanced glycation end products (AGEs) promotes macrophage migration involving RAGE and PI3K/AKT pathway." in: <b>Cardiovascular diabetology</b>, Vol. 12, pp. 37, (2013) (<a href="#">PubMed</a>).</p> <p>Liu, Wang, Feng, Ma, Fu, Song, Jia, Ma: "Hypoglycemic and antioxidant activities of paeonol and its beneficial effect on diabetic encephalopathy in streptozotocin-induced diabetic rats." in: <b>Journal of medicinal food</b>, Vol. 16, Issue 7, pp. 577-86, (2013) (<a href="#">PubMed</a>).</p> <p>Wang, Zhang, Liu, Cui, Yang, Li, Du: "Tanshinone II A down-regulates HMGB1, RAGE, TLR4, NF-kappaB expression, ameliorates BBB permeability and endothelial cell function, and protects rat brains against focal ischemia." in: <b>Brain research</b>, Vol. 1321, pp. 143-51, (2010) (<a href="#">PubMed</a>).</p>
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Western Blotting

**Image 1.** Anti- TRP 7 Picoband antibody, Western blotting  
All lanes: Anti TRP 7 at 0.5ug/ml Lane 1: Mouse Brain Tissue Lysate at 50ug Lane 2: A549 Whole Cell Lysate at 40ug Lane 3: COLO320 Whole Cell Lysate at 40ug Lane 4: SKOV Whole Cell Lysate at 40ug Predicted bind size: 99KD Observed bind size: 99KD



Western Blotting

**Image 2.** Anti- TRP 7 Picoband antibody, Western blotting  
All lanes: Anti TRP 7 at 0.5ug/ml WB: Recombinant Human TRP 7 Protein 0.5ng Predicted bind size: 39KD Observed bind size: 39KD