

## Product datasheet

### Anti-TRPM5 antibody [EPR7504] ab154788

Recombinant RabMAb

[2 References](#) [3 Images](#)

#### Overview

<b>Product name</b>	Anti-TRPM5 antibody [EPR7504]
<b>Description</b>	Rabbit monoclonal [EPR7504] to TRPM5
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB <b>Unsuitable for:</b> Flow Cyt, ICC/IF, IHC-P or IP
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	293T, Human prostate and BxPC-3 lysates; Mouse heart, mouse spleen, rat heart and rat spleen lysates.
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at -20°C.
<b>Storage buffer</b>	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant</p>
<b>Purity</b>	Tissue culture supernatant
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR7504

Isotype

IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab154788 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000 - 1/10000. Predicted molecular weight: 131, 98 kDa.

### Application notes

Is unsuitable for Flow Cyt, ICC/IF, IHC-P or IP.

## Target

### Function

Voltage-modulated  $\text{Ca}(2+)$ -activated, monovalent cation channel (VCAM) that mediates a transient membrane depolarization and plays a central role in taste transduction. Monovalent-specific, non-selective cation channel that mediates the transport of  $\text{Na}(+)$ ,  $\text{K}(+)$  and  $\text{Cs}(+)$  ions equally well. Activated directly by increases in intracellular  $\text{Ca}(2+)$ , but is impermeable to it. Gating is voltage-dependent and displays rapid activation and deactivation kinetics upon channel stimulation even during sustained elevations in  $\text{Ca}(2+)$ . Also activated by a fast intracellular  $\text{Ca}(2+)$  increase in response to inositol 1,4,5-triphosphate-producing receptor agonists. The channel is blocked by extracellular acidification. External acidification has 2 effects, a fast reversible block of the current and a slower irreversible enhancement of current inactivation. Is a highly temperature-sensitive, heat activated channel showing a steep increase of inward currents at temperatures between 15 and 35 degrees Celsius. Heat activation is due to a shift of the voltage-dependent activation curve to negative potentials. Activated by arachidonic acid in vitro. May be involved in perception of bitter, sweet and umami tastes. May also be involved in sensing semiochemicals.

### Tissue specificity

Strongly expressed in fetal brain, liver and kidney, and in adult prostate, testis, ovary, colon and peripheral blood leukocytes. Also expressed in a large proportion of Wilms' tumors and rhabdomyosarcomas. In monochromosomal cell lines shows exclusive paternal expression.

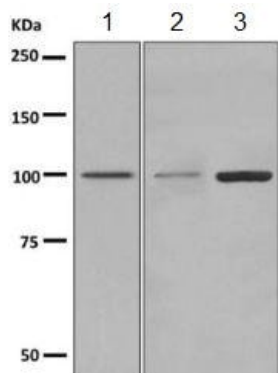
### Sequence similarities

Belongs to the transient receptor (TC 1.A.4) family. LTrpC subfamily. TRPM5 sub-subfamily.

### Cellular localization

Cell membrane.

## Images



Western blot - Anti-TRPM5 antibody [EPR7504]  
(ab154788)

**All lanes :** Anti-TRPM5 antibody [EPR7504] (ab154788) at 1/1000 dilution

**Lane 1 :** 293T cell lysate

**Lane 2 :** Human prostate lysate

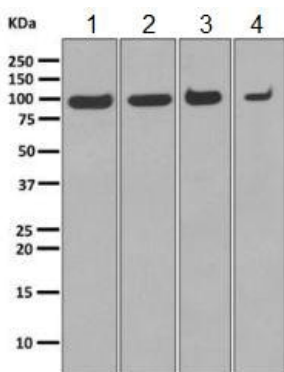
**Lane 3 :** BxPC-3 cell lysate

Lysates/proteins at 10 µg per lane.

#### Secondary

**All lanes :** Goat anti-rabbit HRP at 1/2000 dilution

**Predicted band size:** 131, 98 kDa



Western blot - Anti-TRPM5 antibody [EPR7504]  
(ab154788)

**All lanes :** Anti-TRPM5 antibody [EPR7504] (ab154788) at 1/1000 dilution

**Lane 1 :** Mouse heart lysate

**Lane 2 :** Mouse spleen lysate

**Lane 3 :** Rat heart lysate

**Lane 4 :** Rat spleen lysate

Lysates/proteins at 10 µg per lane.

#### Secondary

**All lanes :** Goat anti-rabbit HRP at 1/2000 dilution

**Predicted band size:** 131, 98 kDa

Why choose a  
recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-TRPM5 antibody [EPR7504] (ab154788)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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