

For Research Use Only

# TRPM3 Polyclonal antibody

Catalog Number: 12724-1-AP



## Basic Information

<b>Catalog Number:</b> 12724-1-AP	<b>GenBank Accession Number:</b> BC022454	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 500 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 80036	<b>Recommended Dilutions:</b> WB 1:1000-1:8000
<b>Source:</b> Rabbit	<b>Full Name:</b> transient receptor potential cation channel, subfamily M, member 3	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 1732 aa, 197 kDa	
<b>Immunogen Catalog Number:</b> AG3421	<b>Observed MW:</b> 160-210 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : mouse brain tissue, rat brain tissue
<b>Species Specificity:</b> human, mouse, rat	

## Background Information

The transient receptor potential melastatin-3 (TRPM3) channel belongs to the family of transient receptor potential (TRP) cation channels that are expressed in a variety of tissues and cell types, including kidney, brain, dorsal root ganglia, cardiomyocytes and pancreatic beta-cells. TRPM3 channels can be activated by the neurosteroid pregnenolone sulfate, and they are regulated by phosphoinositides, and perhaps by calmodulin. Stimulation of TRPM3 channels is connected with heat sensation by somatosensory neurons, insulin secretion by pancreatic beta-cells, regulation of neurotransmitter release, iris constriction, and tumor promotion. The calculated MW of TRPM3 is 197 kDa, 12724-1-AP can detect a band around 160 kDa, which likely corresponds to different splice variant. (PMID: 28720517,21198543)

## Storage

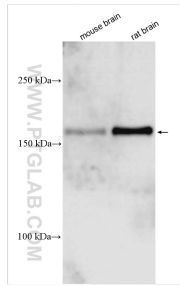
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 12724-1-AP (TRPM3 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.