

For Research Use Only

# TRPV2 Recombinant antibody, PBS Only

Catalog Number: 83022-1-PBS



## Basic Information

**Catalog Number:**

83022-1-PBS

**Size:**

100ug, Concentration: 1mg/ml by Nanodrop;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG8864

**GenBank Accession Number:**

BC018926

**GeneID (NCBI):**

51393

**UNIPROT ID:**

Q9Y5S1

**Full Name:**

transient receptor potential cation channel, subfamily V, member 2

**Calculated MW:**

764 aa, 86 kDa

**Observed MW:**

~80 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

230141C3

## Applications

**Tested Applications:**

WB, FC (Intra), Indirect ELISA

**Species Specificity:**

human

## Background Information

Transient receptor potential vanilloid 2 (TRPV2), also name as VRL-1, plays a critical role in neuronal development, cardiac function, immunity, and cancer (PMID: 31566564). It has been found to play an essential role in sustained intracellular  $Ca^{2+}$  concentration increase (PMID: 31857697). It's reported that TRPV2 is activated by high temperatures, with a threshold of around 52°C (PMID: 10201375).

## Storage

**Storage:**

Store at -80°C.

**Storage Buffer:**

PBS Only

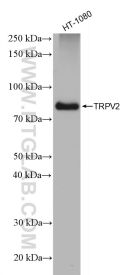
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

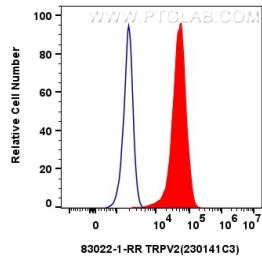
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

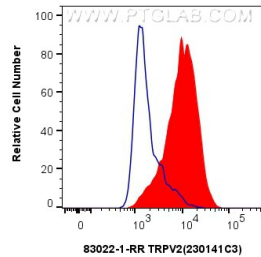
Selected Validation Data



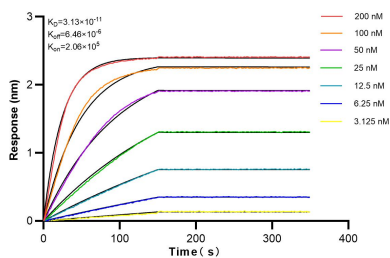
HT-1080 cells were subjected to SDS PAGE followed by western blot with 83022-1-RR (TRPV2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83022-1-PBS in a different storage buffer formulation.



1x10<sup>6</sup> K562 were intracellularly stained with 0.2 ug TRPV2 Recombinant antibody (83022-1-RR, Clone:230141C3) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.2 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 83022-1-PBS in a different storage buffer formulation.



1x10<sup>6</sup> SH-SY5Y cells were intracellularly stained with 0.25 ug TRPV2 Recombinant antibody (83022-1-RR, Clone:230141C3) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011). This data was developed using the same antibody clone with 83022-1-PBS in a different storage



Biolayer interferometry (BLI) kinetic assays of 83022-1-RR against Human TRPV2 were performed. The affinity constant is 31.3 pM.