

For Research Use Only

TRPV2 Recombinant monoclonal antibody, PBS Only

Catalog Number: 83022-1-PBS



Basic Information

Catalog Number:

83022-1-PBS

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 $52^{\circ}C$ (PMID: 10201375).

Storage

Storage:

Store at $-80^{\circ}C$.

The product is shipped with ice packs. Upon receipt, store it immediately at $-80^{\circ}C$

Storage Buffer:

PBS only, pH7.3

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

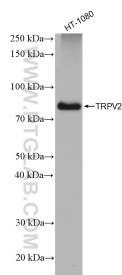
T: 4006900926

E: Proteintech-CN@ptglab.com

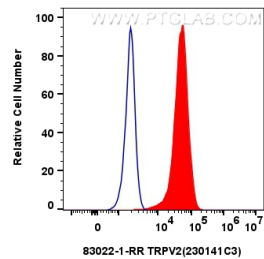
W: ptgcn.com

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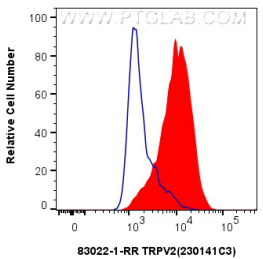
Selected Validation Data



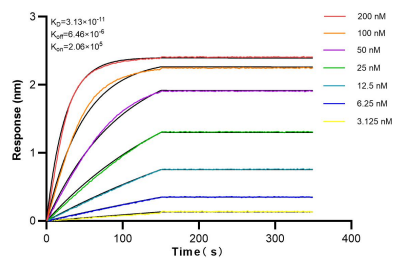
HT-1080 cells were subjected to SDS PAGE followed by western blot with 83022-1-RR (TRPV2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83022-1-PBS in a different storage buffer formulation.



1x10⁶ 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. This data was developed using the same antibody clone with 83022-1-PBS in a different storage buffer formulation.



1x10⁶ 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 buffer



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