

# TRPV4 Polyclonal Antibody

## Product Details

Size	100 µL
Species	Human, Mouse, Non-human primate, Rat
Published Species	Rat, Mouse
Expression System	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	A synthetic peptide from aa region 300-400 of mouse TRPV4 conjugated to blue carrier protein was used as the antigen.
Form	Lyophilized
Concentration	Conc. Not Determined
Storage buffer	whole serum
Contains	no preservative
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles. Glycerol (1:1) may be added for added stability.
RRID	AB_2209406

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	1:300-1:2000	-
Western Blot (WB)	1:300-1:2000	3 Publications
Immunofluorescence (IF)	-	1 Publication

## Product Specific Information

Glycerol (1:1) may be added for additional stability.

Reconstitute in 100 µL of sterile water.

The peptide is homologous in rat and human.

## 4 References

### Western Blot (3)

Heliyon

#### Significance of transient receptor potential vanilloid 4 and aquaporin 5 co-expression in the rat uterus at term.

"OSR00136W was used in Western Blotting to determine the possible role of AQP5 in the osmotic regulation of TRPV4, thus in pregnant uterine contraction."

Authors: Ducza E,Csányi A,Szke É,Pohóczy K,Hajagos-Tóth J,Kothencz A,Tiszai Z,Gáspár R

**Species**  
Not Applicable

**Dilution**  
1:200

**Year**  
2019

American journal of physiology. Regulatory, integrative and comparative physiology

#### Intravesical TRPV4 blockade reduces repeated variate stress-induced bladder dysfunction by increasing bladder capacity and decreasing voiding frequency in male rats.

"OSR00136W was used in western blot to investigate the role of TRPV4 in stress-induced bladder dysfunction using an a rat model"

Authors: Merrill L,Vizzard MA

**Species**  
Rat  
Not Applicable

**Dilution**  
1:500  
Not Cited

**Year**  
2014

[View more WB references on thermofisher.com](#)

### Immunofluorescence (1)

The Journal of neuroscience : the official journal of the Society for Neuroscience

#### The polymodal ion channel transient receptor potential vanilloid 4 modulates calcium flux, spiking rate, and apoptosis of mouse retinal ganglion cells.

"Published figure using TRPV4 polyclonal antibody (Product # OSR00136W) in Immunofluorescence"

Authors: Ryskamp DA,Witkovsky P,Barabas P,Huang W,Koehler C,Akimov NP,Lee SH,Chauhan S,Xing W,Rentería RC,Liedtke W,Krizaj D

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2011

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