Data Sheet (Cat.No.TMAB-01905)

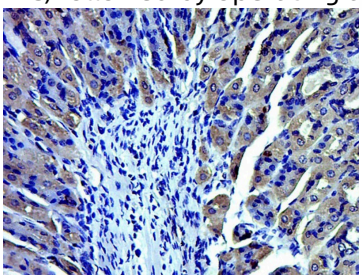
Anti-TRPV1 Polyclonal Antibody

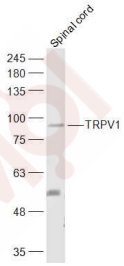
Product Details

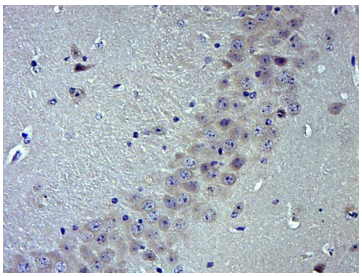
Ig Type:	IgG
Reactivity:	Mouse (predicted:Human,Dog,Pig,Cow,Horse,Rabbit,Sheep,Rat)
Molecular Weight:	Theoretical: 92 kDa. Actual: 92 kDa.
Purification:	Protein A purified

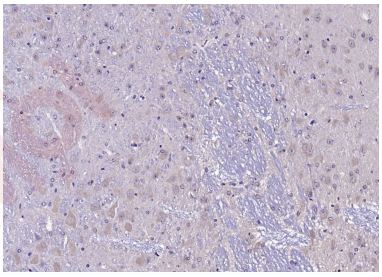
Applications

Verified Activity:	1. Paraformaldehyde-fixed, paraffin embedded (Mouse stomach); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (TRPV1) Polyclonal Antibody, Unconjugated (TMAB-01905) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructionsand DAB staining. 2. Sample: Spinal cord (Mouse) Lysate at 40 μg Primary: Anti-TRPV1 (TMAB-01905) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 92 kDa Observed band size: 92 kDa 3. Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (TRPV1) Polyclonal Antibody, Unconjugated (TMAB-01905) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructionsand DAB staining. 4. Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (TRPV1) Polyclonal Antibody, Unconjugated (TMAB-01905) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructionsand DAB staining.









Application:	IF,IHC-Fr,IHC-P,WB
Recommended	WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human TRPV1
Antigen Species:	Human
Gene ID:	7442
Uniprot ID:	Q8NER1
Synonyms:	Capsaicin receptor;OTRPC1;TRPV 1;Transient receptor potential cation channel subfamily V member 1;Vanilloid receptor 1;Osm-9-like TRP channel 1;Vanilloid receptor subtype 1;TRPV1; VR1;VR 1;DKFZp434K0220
Biology Area:	More Ion Channels,Nociception

Research Background

The detection of noxious stimuli (chemical, mechanical, or thermal) occurs predominantly at the peripheral terminals of primary afferent neurons. This information is ultimately transmitted to the central nervous system to evoke a perception of pain which initiates appropriate protective reflexes. The receptor for capsaicin, VR1 (vanilloid receptor 1; TRPV1 is a nonselective cation channel that resembles members of the transient receptor potential (TRP) family of ion channels. The vanilloid receptor 1 protein functions both as a receptor for capsaicin and a transducter of noxious thermal stimuli. VR1 protein is localized to small-diameter sensory neurons within the dorsal root ganglia and nerve terminals in the dorsal horn.

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