

Anti-TrkA Polyclonal Antibody

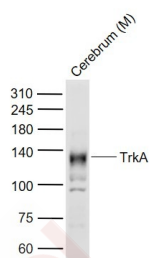
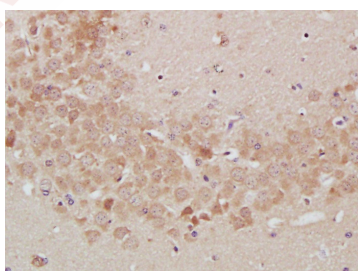
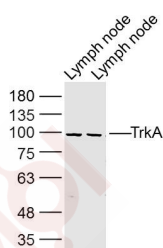
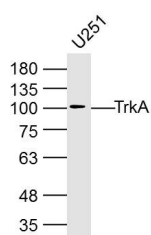
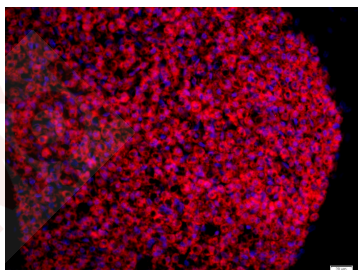
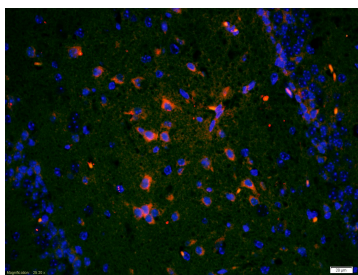
Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Pig,Cow,Horse,Sheep)
Molecular Weight:	Theoretical: 90 kDa. Actual: 100 kDa.
Purification:	Protein A purified

Applications

1. Tissue/cell: mouse brain tissue;4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH6.0), Boiling bathing for 15 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Incubation: Anti-TrkA Polyclonal Antibody, Unconjugated (TMAB-01900) 1:200, overnight at 4° C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated used at 1:200 dilution for 40 minutes at 37°C. DAPI (5 µg/ml,blue) was used to stain the cell nucleus.
2. Tissue/cell: mouse embryo tissue;4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH6.0), Boiling bathing for 15 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Incubation: Anti-TrkA Polyclonal Antibody, Unconjugated (TMAB-01900) 1:200, overnight at 4° C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated used at 1:200 dilution for 40 minutes at 37°C. DAPI (5 µg/ml,blue) was used to stain the cell nucleus.
3. Sample:
U251 Cell (Human) Lysate at 40 µg
Primary: Anti-TrkA (TMAB-01900) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 90 kDa
Observed band size: 100 kDa
4. Sample:
LymphNode (Mouse) Lysate at 40 µg
LymphNode (Rat) Lysate at 40 µg
Primary: Anti-TrkA (TMAB-01900) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 90 kDa
Observed band size: 100 kDa
5. 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 (TrkA) Polyclonal Antibody, Unconjugated (TMAB-01900) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
6. Sample:
Lane 1: Cerebrum (Mouse) Lysate at 40 µg
Primary: Anti-TrkA (TMAB-01900) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 130 kDa
Observed band size: 130 kDa

Verified Activity:



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 Trk A

Antigen Species: Human

Gene ID: 4914

Uniprot ID: P04629

Synonyms: neurotrophic tyrosine kinase, receptor, type 1

Research Background

The Trk family of nerve growth factor receptors includes Trk A (also referred to as Trk A gp140), Trk B and Trk C. The prototype member of this gene family, Trk A, encodes a 140 kDa cell surface receptor, gp140, the expression of which is restricted in vivo to neurons of the sensory spinal and cranial ganglia of neurocrest origin. Nerve growth factor (NGF) stimulates tyrosine phosphorylation of Trk gp 140 in neural cell lines and in embryonic dorsal root ganglia. By comparison, BDNF and to a lesser extent, NT-3, but not NGF, can induce tyrosine phosphorylation of Trk B gp 145. The third member of the Trk receptor family, Trk C encodes a 140 kDa protein, Trk C gp140, that is preferentially expressed in brain tissue and primarily functions as a receptor for NT-3. An additional component of the Trk receptor complex, NGFR p175, binds to neurotrophic factors with low affinity but is required for efficient signaling. NGFR p175 accelerates Trk activation and may recruit downstream effector molecules to the ligand-bound receptor complex.

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