

## Anti-Trk A+B+C Polyclonal Antibody

### Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Chicken)
Molecular Weight:	Theoretical: 90 kDa. Actual: 140/110 kDa.
Purification:	Protein A purified

### Applications

1. Tissue/cell: human lung carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01 M, pH 6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Incubation: Anti-Trk A/B/C Polyclonal Antibody, Unconjugated (TMAB-13816) 1: 200, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining
2. Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01 M, pH 6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Incubation: Anti-Trk A/B/C Polyclonal Antibody, Unconjugated (TMAB-13816) 1: 200, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining
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 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Trk A+B+C) Polyclonal Antibody, Unconjugated (TMAB-13816) at 1:500 overnight at 4°C, followed by a conjugated secondary for 20 minutes and DAB staining.
4. Sample:  
Lane 1: SH-SY5Y (Human) Cell Lysate at 30 µg  
Lane 2: K562 (Human) Cell Lysate at 30 µg  
Primary: Anti-Trk A+B+C (TMAB-13816) at 1/1000 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 130 kD  
Observed band size: 130 kD
5. Sample:  
Lane 1: Cerebrum (Mouse) Lysate at 40 µg  
Lane 2: NIH/3T3 (Mouse) Cell Lysate at 30 µg  
Lane 3: Large intestine (Mouse) Lysate at 40 µg  
Lane 4: Uterus (Mouse) Lysate at 40 µg  
Primary: Anti-Trk A+B+C (TMAB-13816) at 1/1000 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 140/110 kD  
Observed band size: 120 kD

Verified Activity:

## A DRUG SCREENING EXPERT

---

Application: WB,IHC-P,IHC-Fr,IF

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

---

### Properties

Stability & Storage: Store at 2°C-8°C for 1 month. 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

---

### Research Background

The Trk family of nerve growth factor receptors includes Trk A(also refered 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 gangliaof 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 phophorylayion of Trk B gp 145. The third member of the Trk receptor family, Trk C incodes 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 dffector molecules to the ligand-bound receptor complex.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481

---