Data Sheet (Cat.No.TMAB-05613)

Anti-EPHA10 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Chicken,Dog,Pig,Cow,Horse,Rabbit,GuineaPig)
Molecular Weight:	Theoretical: 107 kDa. Actual: 107 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	1. Tissue/cell: rat testis tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01 M, pH 6.0), Boiling bathing for 15 min; Blocking buffer (normal goat serum) at 37℃ for 20 min; Incubation: Anti-EPHA10 Polyclonal Antibody, Unconjugated (TMAB-05613) 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 nuclei 2. Tissue/cell: rat testis 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℃ for 20 min; Incubation: Anti-EPHA10 Polyclonal Antibody, Unconjugated (TMAB-05613) 1: 200, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining 3. Sample: Testis (Mouse) Lysate at 40 μg Testis (Rat) Lysate at 40 μg k562 (human) Cell Lysate at 30 μg Primary: Anti-EPHA10 (TMAB-05613) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 107 kD Observed band size: 107 kD
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 EPHA10
Antigen Species:	Human
Gene ID:	284656
Uniprot ID:	Q5JZY3

Research Background

The Eph subfamily represents the largest group of receptor protein tyrosine kinases identified to date (1-3). While the biological activities of these receptors have yet to be determined, there is increasing evidence that they are involved in central nervous system function and in development (1-3). The Eph subfamily receptors of human origin (and their murine/avian homologs) include EphA1 (Eph), EphA2 (Eck), EphA3 (Hek4), EphA4 (Hek8), EphA5 (Hek7), EphA6 (Hek12), EphA7 (Hek11/MDK1), EphA8 (Hek3), EphB1 (Hek6), EphB2 (Hek5), EphB3 (Cek10, Hek2), EphB4 (Htk), EphB5 (Hek9) and EphB6 (Mep). Ligands for Eph receptors include ephrin-A4 (LERK-4) which binds EphA3 and EphB1. In addition, ephrin-A2 (ELF-1) has been described as the ligand for EphA4, ephrin-A3 (Ehk1-L) as the ligand for EphA5 and ephrin-B2 (Htk-L) as the ligand for EphB4 (Htk) (4-7).

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