Data Sheet (Cat.No.TMAB-01205)

Anti-NCAM1 Polyclonal Antibody 2

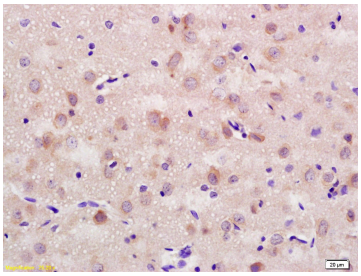
Product Details

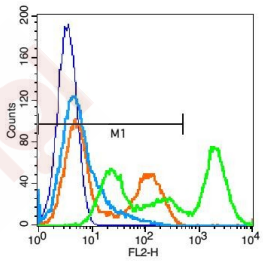
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Chicken,Dog,Pig,Cow,Horse,Rabbit,GuineaPig)
Molecular Weight:	Theoretical: 92 kDa. Actual: 95 kDa.
Purification:	Protein A purified

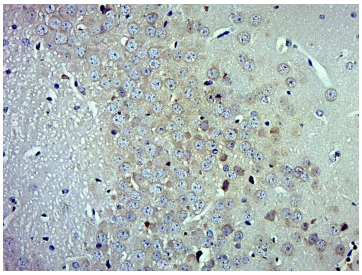
Applications

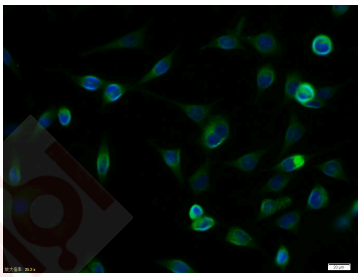
Verified Activity:

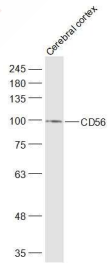
1. Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min;
Incubation: Anti-CD56/NCAM1 Polyclonal Antibody, Unconjugated (TMAB-01205) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody and DAb staining.
2. Blank control: Jurkat cells (blue). Primary Antibody: Rabbit Anti-CD56 antibody (TMAB-01205), Dilution: 1 µg in 100 µL 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit Igg (orange),used under the same conditions); Secondary Antibody: Goat anti-rabbit IgG-Pe (white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA.
Protocol
The cells were fixed with 2% paraformaldehyde (10 min). Primary antibody (TMAB-01205, 1 µg/1x10^6 cells) were incubated for 30 min on the ice, followed by 1 X PBS containing 0.5% BSA + 10% goat serum (15 min) to block non-specific protein-protein interactions. Then the Goat Anti-rabbit IgG/PE antibody was added into the blocking buffer mentioned above to react with the primary antibody at 1/200 dilution for 30 min on ice.
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 (CD56) Polyclonal Antibody, Unconjugated (TMAB-01205) at 1:500 overnight at 4°C, followed by a conjugated secondary for 20 min and DAB staining.
4. Tissue/cell: SH-SY5Y cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Antibody incubation with (CD56) polyclonal Antibody, Unconjugated (TMAB-01205) 1:100, 90 minutes at 37°C; followed by a FITC conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue) was used to stain the cell nucleus.
5. Sample:
Cerebral cortex (Mouse) Lysate at 40 µg
Primary: Anti-CD56 (TMAB-01205) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 92 kDa
Observed band size: 95 kDa











Application:	FCM,ICC/IF,IF,IHC-Fr,IHC-P,WB
Recommended	FCM=1 μg/Test; ICC/IF=1:100-500; IF=1:100-500; IHC-Fr=1:100-500; IHC-P=1:100-500; WB=1:500-2000

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 CD56
Antigen Species:	Human
Gene ID:	4684
Uniprot ID:	P13591
Synonyms:	NCAM;MSK39;CD56;neural cell adhesion molecule 1
Biology Area:	ECM Proteins,Growth Cone,Neural Signal Transduction,Human Lineage Negative

Research Background

This gene encodes a cell adhesion protein which is a member of the immunoglobulin superfamily. The encoded protein is involved in cell-to-cell interactions as well as cell-matrix interactions during development and differentiation. The encoded protein has been shown to be involved in development of the nervous system, and for cells involved in the expansion of T cells and dendritic cells which play an important role in immune surveillance. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2011]

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