Data Sheet (Cat.No.TMAB-03874)

Anti-CD168 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse (predicted:Rat,Cow,Horse)
Molecular Weight:	Theoretical: 84 kDa. Actual: 84 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	1. 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 (CD168) Polyclonal Antibody, Unconjugated (TMAB-03874) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining. 2. Blank control (blue): MCF 7 Cells (fixed with 2% paraformaldehyde (10 min) and then permeabilized with ice-cold 90% methanol for 30 min on ice). Primary Antibody: Rabbit Anti-CD168/AF647 Conjugated antibody (TMAB-03874-AF647), Dilution: 5µg in 100 µL 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit IgG/AF647 (orange), used under the same conditions. 3. Sample: Bone (Mouse) Lysate at 40 µg Primary: Anti-CD168 (TMAB-03874) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 84 kD Observed band size: 84 kD
Application:	WB,IHC-P,IHC-Fr,IF,FCM
Recommended	WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500; FCM: 1µg/Test

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 CD168/RHAMM
Antigen Species:	Human
Gene ID:	3161
Uniprot ID:	O75330

Research Background

The CD168 antigen is a non-integral cell surface hyaluronan receptor and intracellular protein. When hyaluronan binds to CD168, the phosphorylation of a number of proteins, including the focal adhesion kinase occurs. CD168 activation regulates various cellular processes including cell migration, proliferation, signaling, regulation of gene expression, cell differentiation, morphogenesis, and metastasis via both extracellular and intracellular pathways.

CD168 is involved in cellular transformation and metastasis formation, and in regulating extracellular-regulated kinase (ERK) activity. CD168 is also a subunit of the HARC complex. CD168 knockdown in human embryonic stem cells results in downregulation of several pluripotency markers, induction of early extraembryonic lineages, loss of cell viability, and changes in cell cycle.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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