Data Sheet (Cat.No.TMAB-00327)

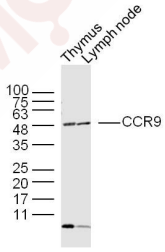
Anti-CCR9 Polyclonal Antibody

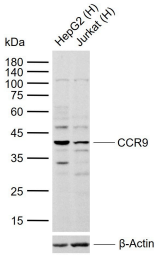
Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse (predicted:Rat,Dog,Cow,Horse,Rabbit,Sheep)
Molecular Weight:	Theoretical: 40 kDa. Actual: 40-48 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	1. Sample: Thymus (Mouse) Lysate at 40 µg LympHnode (Mouse) Lysate at 40 µg Primary: Anti-CCR9 (TMAB-00327) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 40 kDa Observed band size: 48 kDa 2. Sample: Lane 1: Human HepG2 cell lysates Lane 2: Human Jurkat cell lysates Primary: Anti-CCR9 (TMAB-00327) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 40 kDa Observed band size: 40 kDa





Application:	WB
Recommended	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 CCR9

Antigen Species: Human

Gene ID: 10803

Uniprot ID: P51686

Biology Area: Beta Chemokine Rec. (CCR)

Research Background

The protein encoded by this gene is a member of the beta chemokine receptor family. It is predicted to be a seven transmembrane protein similar to G protein coupled receptors. Chemokines and their receptors are key regulators of the thymocytes migration and maturation in normal and inflammation conditions. This gene is expressed in a range of tissues and hemopoietic cells. The expression of this receptor in lymphatic endothelial cells and overexpression in vascular tumors suggested its function in chemokine-driven recirculation of leukocytes and possible chemokine effects on the development and growth of vascular tumors. This receptor appears to bind the majority of beta-chemokine family members; however, its specific function remains unknown. The specific ligand of this receptor is CCL25. It has been found that this gene is differentially expressed by T lymphocytes of small intestine and colon, suggested a role in the thymocytes recruitment and development that may permit functional specialization of immune responses in different segment of the gastrointestinal tract. This gene is mapped to chromosome 3p21.3, a region that includes a cluster of chemokine receptor genes. Two alternatively spliced transcript variants have been described.

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