Human ICAM-5 Biotinylated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: BAF1950

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human ICAM-5 in Western blots. In Western blots, approximately 10% cross-reactivity with recombinant mouse ICAM-5 is observed and less than 2% cross-reactivity with recombinant human (rh) ICAM-1, rhICAM-2, and rhICAM-3 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human ICAM-5 Ala28-Glu570 Accession # Q9UMF0
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

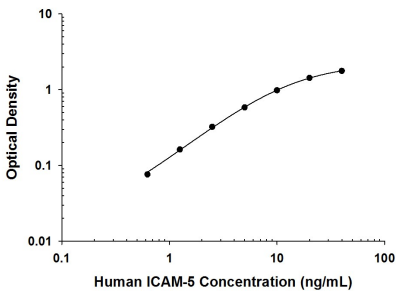
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Human ICAM-5 Fc Chimera (Catalog # 1950-M5)
Human ICAM-5 Sandwich Immunoassay		**Reagent**
ELISA Capture	2-8 µg/mL	Human ICAM-5 Antibody (Catalog # MAB1950)
ELISA Detection	0.1-0.4 µg/mL	Human ICAM-5 Biotinylated Antibody (Catalog # BAF1950)
Standard		Recombinant Human ICAM-5 Fc Chimera (Catalog # 1950-M5)

DATA

ELISA Detection (Matched Antibody Pair)



Human ICAM-5 ELISA Standard Curve. Recombinant Human ICAM-5 protein (Catalog # 1950-M5) was serially diluted 2-fold and captured by Mouse Anti-Human ICAM-5 Monoclonal Antibody (Catalog # MAB1950) coated on a Clear Polystyrene Microplate (Catalog # DY990). Goat Anti-Human ICAM-5 Biotinylated Antigen Affinity-purified Polyclonal Antibody (Catalog # BAF1950) was biotinylated and incubated with the protein captured on the plate. Detection of the standard curve was achieved by incubating Streptavidin-HRP (Catalog # DY998) followed by Substrate Solution (Catalog # DY999) and stopping the enzymatic reaction with Stop Solution (Catalog # DY994).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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BACKGROUND

Intercellular adhesion molecule-5 (ICAM-5), also known as telencephalin, is a cell surface glycoprotein belonging to the immunoglobulin superfamily. Human ICAM-5 consists of an 832 amino acid (aa) extracellular domain containing 9 immunoglobulin (Ig) domains and 15 N-glycosylation sites, a 28 aa transmembrane domain, and a 64 aa cytoplasmic domain. ICAM-5 shares 38-55% aa identity with other ICAMs, being most closely related to ICAM-1 (50% identity) and ICAM-3 (55% identity) (1). Human and mouse ICAM-5 share 85% aa identity. The tissue distribution of ICAM-5 is unique among ICAMs, being expressed only in telencephalic regions of the central nervous system (2). Like other ICAMs, ICAM-5 binds to the leukocyte integrin LFA-1 (CD11a/CD18) (3). Binding of ICAM-5 to LFA-1 is dependent on the first amino terminal Ig domain of ICAM-5 (4). ICAM-5 also displays homophilic binding, with the amino terminal Ig domain binding to Ig domains 4-5. Homophilic binding of ICAM-5 is dependent of ICAM-5 being in a monomeric form. The monomeric form of ICAM-5 is found during dendritogenesis in developing brain, whereas a high molecular weight complex is found in mature neurons (5).

References:

1. Mizuno, T. *et al.* (1997) J. Biol. Chem. **272**:1156.
2. Yoshihara, Y. *et al.* (1994) Neuron **12**:541.
3. Tain, L. *et al.* (1997) J. Immunol. **158**:928.
4. Tain, L. *et al.* (2000) Eur. J. Immunol. **30**:810.
5. Tain, L. *et al.* (2000) J. Immunol. **150**:243.

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