Human ADAM8 aa 498-653 Antibody

Monoclonal Mouse IgG_1 Clone # 143338

Catalog Number: MAB10311

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human ADAM8 in direct ELISAs and Western blots. Detects aa 498-653 of rhADAM8, which corresponds to the cysteine-rich and EGF-like domains. In direct ELISAs, no cross-reactivity with recombinant human (rh) ADAM9, rhADAM10, rhADAM15, rhBACE, or rhTACE is observed.
Source	Monoclonal Mouse IgG_1 Clone # 143338
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human ADAM8 ectodomain Asp158-Ser653 Accession # P78325
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

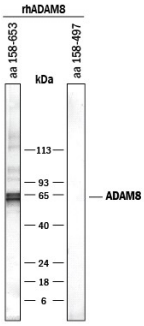
APPLICATIONS

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	1 µg/mL	See Below
Immunoprecipitation	25 µg/mL	Conditioned cell culture medium spiked with Recombinant Human ADAM8 aa 158-653 see our available Western blot detection antibodies. Does not detect Recombinant Human ADAM8 aa 158-497.
Intracellular Staining by Flow Cytometry	2.5 µg/10^6 cells	Human peripheral blood mononuclear cells fixed with paraformaldehyde and permeabilized with saponin
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA

Western Blot



Detection of Human ADAM8 by Western Blot. Western blot shows Recombinant Human ADAM8 aa158-653 and Recombinant Human ADAM8 aa 158-497. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human ADAM8 Monoclonal Antibody (Catalog # MAB10311) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for ADAM8 aa158-653 at approximately 65 kDa (as indicated). The antibody did not detect ADAM8 aa 158-497, indicating it is specific for aa 498-653. This experiment was conducted under non-reducing conditions only and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
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.

bio-techne®
Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449

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BACKGROUND

ADAM8, also known as cell surface antigen MS2 or CD156a, is a member of the ADAM family that contains a disintegrin and metalloprotease-like domain (1, 2). ADAM8 can cleave a variety of substrates and has been shown as a sheddase for the low affinity IgE receptor CD23 and the neural recognition molecule CHL1 (3, 4). Expression and regulation studies suggest that ADAM8 is a novel osteoclast stimulating factor and may play a role in asthma (5, 6). The 824 amino acid precursor of human ADAM8 consists of a signal peptide (residues 1 to 16), a pro peptide (residues 17 to 199), a metaloprotease domain (residues 200 to 400), a disintegrin-like domain (residues 408 to 494), a cysteine-rich region (residues 497 to 613), an EGF-like domain (residues 614 to 640), a transmembrane region (residues 656 to 676) and a cytoplasmic domain (residues 677 to 824).

References:

1. Yoshiyama, K. *et al.* (1997) Genomics **41**:56.
2. Moss, M.L. and J.W. Bartsch (2004) Biochemistry **43**:7227.
3. Fourie, A.M. *et al.* (2003) J. Biol. Chem. **278**:30469.
4. Naus, S. *et al.* (2004) J. Biol. Chem. **279**:16083.
5. Choi, S.J. *et al.* (2001) J. Bone Miner. Res. **16**:814.
6. King, N.E. *et al.* (2004) Am. J. Respir. Cell Mol. Biol. **31**:257.

Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 **Canada** TEL 855 668 8722 **China** TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449