# Human ADAM8 Biotinylated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: BAF1031

## DESCRIPTION

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| **Species Reactivity** | Human |
| **Specificity** | Detects human ADAM8 in Western blots. In this format, less than 1% cross-reactivity with recombinant human (rh) ADAM15, recombinant mouse (rm) ADAM9, rmADAM10, rhBACE and rhTACE is observed. |
| **Source** | Polyclonal Goat IgG |
| **Purification** | Antigen Affinity-purified |
| **Immunogen** | *S. frugiperda* insect ovarian cell line *Sf* 21-derived recombinant human ADAM8<br>Glu158-Ser653<br>Accession # P78325 |
| **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 ADAM8 aa 158-497 (Catalog # 1031-AD) |

## PREPARATION AND STORAGE

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| **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.**<br>● 12 months from date of receipt, -20 to -70 °C as supplied.<br>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.<br>● 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

## 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:**


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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.




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