Human ADAM8 Ectodomain Alexa Fluor® Plus 680-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF1031AFP680
100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human ADAM8 Ectodomain in direct ELISAs and Western blots. In direct ELISAs, approximately 50% cross-reactivity with recombinant mouse ADAM8 is observed and less than 1% cross-reactivity with recombinant human (rh) ADAM12, rhADAM19, and rhADAM33 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*S. frugiperda* insect ovarian cell line *Sf* 21-derived recombinant human ADAM8 Ectodomain Glu158-Ser653 Accession # P78325
Conjugate	Alexa Fluor Plus 680 Excitation Wavelength: 687 nm Emission Wavelength: 704 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.
Immunoprecipitation	Optimal dilution of this antibody should be experimentally determined.

DATA

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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.

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USA | TEL: 800.343.7475 Canada | TEL: 855.668.8722 Europe | Middle East | Africa TEL: +44.0.1235.529449
China | info.cn@bio-techne.com TEL: 400.821.3475