CD268 Human Protein

PRODUCT OVERVIEW

Product Name	CD268, Protein
Full Product Name	CD268(BAFFR)-muIg-Purified (with Antibiotics)
Product Gene Name	CD268 protein
Product Synonym Names	Human CD268(BAFFR)-muIg Fusion Protein
Host	CHO cells
Species Reactivity	Human
Form/Format	50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 0.5% Gentamicin sulfate
Purity/Purification	Purified (with Antibiotics)
Concentration	0.5 mg/ml (lot specific)
Preparation and Storage	Store at 2 - 5 degree C. Freeze/Thawing is not recommended. Product should retain activity for at least 12 months after shipping date when stored as recommended.
Molecular Structure	A soluble molecule consisting of the extracellular (60aa) domain of human BAFFR fused to the murine IgG2a Fc (232 aa). Predicted monomeric weight: 33.5 kd.
Transfectant Cell Line	CHO
Performance	Five x 105 human Raji cells were washed and incubated 45 minutes on ice with 80 ul of BAFF-muCD8 at 5 ug/ml. Cells were washed twice and incubated with 2 degree anti-muCD8a/PE, after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 1.62 log10 fluorescent units when compared to a buffer control. This binding was 91% inhibited when reagent was pre incubated with 100 ug/ml BAFFR-muIg.
Production	Human BAFFR-muIg fusion protein was purified from (low FBS containing) tissue culture supernatant of CHO transfectants using size exclusion and Protein A chromatography.
Buffer	50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 0.5 mg/ml Gentamicin sulfate (as a preservative).
Group Header	CD268(BAFFR)-muIg
Applications Tested/Suitable for CD268 protein	ELISA (EIA)
Related Product Information for CD268 protein	**Information:** The human B cell activating factor (BAFF) and APRIL(a proliferation inducing ligand) are both type II molecules belonging to the TNF superfamily. They are expressed by non-B cells, and are down regulated by mitogenic stimulation(2). BAFF and APRIL bind to at least two receptors: TACI (transmembrane activator and CAML-interactor) and BCMA (B cell maturation antigen), both of which are restricted to B cells(3,4). Ligation of these receptors with recombinant BAFF dramatically increases IgM production by peripheral blood B cells(1). A third receptor for BAFF (BAFF-R) has been described(5). BAFF and BAFFR knockout mice have a reduced numbers of mature B cells in the periphery, however TACI and BCMA knockouts do not share this phenotype, suggesting that BAFF-R may the primary receptor for BAFF in mice(8,9,10). Cell surface BAFF can be proteolytically cleaved to form a soluble trimeric molecule(2). Levels of soluble BAFF correspond with levels of autoantibodies in Sjogren's Syndrome(11). Recombinant human BAFFR-muIg binds to recombinant BAFF-muCD8 and can inhibit binding of this molecule to receptors on Raji cells.

Product References and Citations for CD268 protein	1) Schneider P., J. Tschopp, et al. J. Exp. Med. 1999, 189(11):1747-1756. 2) Shu, H.B., H. Johnson, W.H. Hui. J Leukoc Biol 1999, 65:680-683. 3) Marsters, S.A., A. Ashkenazi, et al. 2000, Curr Biol 10:785-788. 4) Xia, X., H. Hsu, et al. 2000, J Exp Med, 192(1): 137-143. 5) Thompson J.S., C. Ambrose, et al. Science 2001, 293: 2108-2111. 6)Roschke,V, T.S. Migone, et al. J Immunol. 2002, 169: 4314-4321. 7) MacLennan, C.M., C.G. Vinuesa, 2002, Immunity 17:235-238. 8) B. Schiemann, et al, (2001) Science 293: 2111-2114. 9) S.M. Harless,et al, (2001) Curr Biol 11: 1988-1989. 10) Mol Cell Biol (2001) 21: 4067-4074. 11) X. Mariette, et al, (2003) Ann Rhem Dis 62: 168-171.
Other Notes	Small volumes of CD268 protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CD268 purchase	MBS666789 is a protein targeting CD268. Also known as CD268(BAFFR)-muIg-Purified (with Antibiotics). Reactive in Human. Host: CHO cells.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD268. It may not necessarily be applicable to this product.

Protein Family	Tumor necrosis factor receptor superfamily
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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