

Monoclonal Antibody to CD172a / SIRPA - FITC

Alternate names:	BIT, Brain Ig-like molecule with tyrosine-based activation motifs, CD172 antigen-like family member A, Inhibitory receptor SHPS-1, MFR, MYD1, Macrophage fusion receptor, MyD-1 antigen, PTPNS1, SHP substrate 1, SHPS-1, SHPS1, Signal-regulatory protein alpha-1, Sirp-alpha-2, Sirp-alpha-3, Tyrosine-protein phosphatase non-receptor type substrate 1, p84
Catalog No.:	AM05885FC-N
Quantity:	0.1 mg
Concentration:	0.1 mg/ml
Background:	Protein tyrosine phosphatases (PTPases) SHP1 and SHP2 are critical regulators in the intracellular signaling pathways that result in cell responses such as mitosis, differentiation, migration, survival, transformation or death. SHP2 is a signal transducer for several receptor tyrosine kinases and cytokine receptors. A novel SHP2 associated glycoprotein was recently cloned from human, rat, mouse and cattle by several labs and was designated SIRPa (1), SHPS1, MyD1, BIT and p84. SIRPa is a new gene family containing at least fifteen members. SIRPa is a substrate of many activated tyrosine kinases such as insulin receptor, EGFR, PDGFR and src, and a specific docking protein for SHP2. SIRPa has regulatory effects on cellular responses induced by serum, growth factors, insulin, oncogenes, growth hormones and cell adhesion and plays a general role in different physiological and pathological processes.
Uniprot ID:	F1S887
Host / Isotype:	Mouse / IgG1
Clone:	BL1H7
Immunogen:	Porcine alveolar macrophages
Format:	State: Liquid purified IgG fraction Purification: Affinity Chromatography on Protein G Buffer System: PBS Preservatives: 0.09% Sodium Azide Stabilizers: 1% BSA Label: FITC – Fluorescein Isothiocyanate Isomer 1
Applications:	Flow Cytometry: Use 10 µl of neat-1/10 diluted antibody to label 1x10 ⁶ cells in 100 µl. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody is specific for the CD172a antigen, also known as SWC3, which is a member of the signal regulatory protein (SIRP) family. CD172a is expressed by granulocytes, monocytes and macrophages. Species: Pig. Other species not tested.

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com



Storage:

Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
This aproduct is photosensitive and should be protected from light.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings:

1. Alvarez, B. et al. (1999) A porcine cell surface repeter identified by monoclonal antibodies to SWC3 is a member of the signal regulatory protein family and associates with protein-tyrosine phopphatase SHP-1. *Tissue Antigens* 55: 342-351.
2. Bullido R, Pérez de la Lastra J, Almazán F, Ezquerria A, Llanes D, Alonso F, et al. Induction of aggregation in porcine lymphoid cells by antibodies to CD46. *Vet Immunol Immunopathol.* 2000 Jan 31;73(1):73-81. PubMed PMID: 10678400.
3. Carrillo A, Chamorro S, Rodríguez-Gago M, Alvarez B, Molina MJ, Rodríguez-Barbosa JI, et al. Isolation and characterization of immortalized porcine aortic endothelial cell lines. *Vet Immunol Immunopathol.* 2002 Oct 8;89(1-2):91-8. PubMed PMID: 12208054.
4. Domenech N, Rodríguez-Carreño MP, Filgueira P, Alvarez B, Chamorro S, Domínguez J. Identification of porcine macrophages with monoclonal antibodies in formalin-fixed, paraffin-embedded tissues. *Vet Immunol Immunopathol.* 2003 Jul 15;94(1-2):77-81. PubMed PMID: 12842613.
5. Jeong HJ, Song YJ, Lee SW, Lee JB, Park SY, Song CS, et al. Comparative measurement of cell-mediated immune responses of swine to the M and N proteins of porcine reproductive and respiratory syndrome virus. *Clin Vaccine Immunol.* 2010 Apr;17(4):503-12. doi: 10.1128/CVI.00365-09. Epub 2010 Feb 3. PubMed PMID: 20130128.
6. Gimeno M, Darwich L, Diaz I, de la Torre E, Pujols J, Martín M, et al. Cytokine profiles and phenotype regulation of antigen presenting cells by genotype-I porcine reproductive and respiratory syndrome virus isolates. *Vet Res.* 2011 Jan 18;42(1):9. doi: 10.1186/1297-9716-42-9. PubMed PMID: 21314968.
7. Moreno S, Alvarez B, Poderoso T, Revilla C, Ezquerria A, Alonso F, et al. Porcine monocyte subsets differ in the expression of CCR2 and in their responsiveness to CCL2. *Vet Res.* 2010 Sep-Oct;41(5):76. doi: 10.1051/vetres/2010048. Epub 2010 Jul 30. PubMed PMID: 20670605.
8. Facci MR, Auray G, Buchanan R, van Kessel J, Thompson DR, Mackenzie-Dyck S, et al. A comparison between isolated blood dendritic cells and monocyte-derived dendritic cells in pigs. *Immunology.* 2010 Mar;129(3):396-405. doi: 10.1111/j.1365-2567.2009.03192.x. Epub 2009 Nov 16. PubMed PMID: 19922422.
9. Clapperton M, Bishop SC, Glass EJ. Innate immune traits differ between Meishan and Large White pigs. *Vet Immunol Immunopathol.* 2005 Apr 8;104(3-4):131-44. PubMed PMID: 15734534.
10. Kapetanovic R, Fairbairn L, Beraldi D, Sester DP, Archibald AL, Tuggle CK, et al. Pig bone marrow-derived macrophages resemble human macrophages in their response to bacterial lipopolysaccharide. *J Immunol.* 2012 Apr 1;188(7):3382-94. doi: 10.4049/jimmunol.1102649. Epub 2012 Mar 5. PubMed PMID: 22393154.
11. Tambuyzer BR, Casteleyn C, Vergauwen H, Van Cruchten S, Van Ginneken C. Osteopontin alters the functional profile of porcine microglia in vitro. *Cell Biol Int.* 2012;36(12):1233-8. doi: 10.1042/CBI20120172. PubMed PMID: 22974008.
12. Piriou-Guzylack, L. (2008) Membrane markers of the immune cells in swine: an update. *Vet Res.* 39: 54.

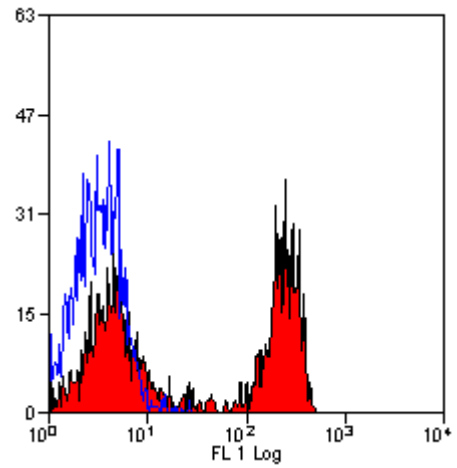
For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com

Pictures:

Staining of Porcine peripheral blood mononuclear cells with CD172a Antibody
Cat.-No AM05885FC-N (Clone BL1H7)



For research and in vitro use only. Not for diagnostic or therapeutic work.
Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com