

## Monoclonal Antibody to CD147 - FITC

<b>Alternate names:</b>	5F7, BSG, Basigin, Collagenase stimulatory factor, EMMPRIN, Extracellular matrix metalloproteinase inducer, Leukocyte activation antigen M6, OK blood group antigen, TCSF, Tumor cell-derived collagenase stimulatory factor
<b>Catalog No.:</b>	SM297F
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0.1 mg/ml
<b>Background:</b>	OX-47 is expressed at high levels on activated lymphocytes but lower levels on resting cells. The antigen is also present on some endothelia. The antigen contains two Ig-like domains and an unusual transmembrane domain with a charged residue. It is abundant on activated lymphocytes: it is the homologue of the chicken blood brain barrier antigen HT7.(2)
<b>Uniprot ID:</b>	<a href="#">P26453</a>
<b>NCBI:</b>	<a href="#">NP_001103352.1</a>
<b>GeneID:</b>	<a href="#">25246</a>
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Clone:</b>	OX-47
<b>Immunogen:</b>	T blasts from a mixed lymphocyte reaction. Spleen cells from immunised BALB/c mice were fused with cells from the NS0/1 mouse myeloma cell line.
<b>Format:</b>	<b>State:</b> Liquid purified IgG fraction. <b>Purification:</b> Affinity Chromatography on Protein G. <b>Buffer System:</b> PBS, pH 7.4 containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer. <b>Label:</b> FITC – Fluorescein Isothiocyanate Isomer 1
<b>Applications:</b>	Flow Cytometry: Use 10 µl of Neat-1/10 diluted antibody to label 10e6 cells in 100 µl. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognises a membrane glycoprotein of MW 42-48 kD. Clone OX-47 is reported to be suitable for use in Western blotting. (4) <b>Species:</b> Rat. Other species not tested.
<b>Storage:</b>	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

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

Material Safety Datasheets are available at [www.acris-antibodies.com](http://www.acris-antibodies.com) or on request.

Antibody Hotline - Technical Questions - Antibody Location Service  
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- General References:**
1. Paterson, D.J., Jefferies W.A., Green, J.R., Brandon, M.R., Corthesy, P., Puklavec, M., Williams, A.F. (1987) Antigens of Activated rat T Lymphocytes including a molecule of 50,000 Mr detected only by CD4 positive T blasts. *Mol. Immunol.* 24: 1281.
  2. Fossum S., Mallett S. & Barclay A.N. (1991) The MRC OX-47 antigen is a member of the immunoglobulin superfamily with an unusual transmembrane sequence". *Eur. J. Immunol.* 21: 671.
  3. Cassella, J.P. et al. (1996) Ontogeny of four blood-brain barrier markers: an immunocytochemical comparison of pial and cerebral cortical microvessels. *J. Anat.* 189: 407-15.
  4. Foda, H. et al. (2001) Ventilator-induced lung injury upregulates and activates gelatinases and EMMPRIN. *Am. J. Respir. Cell. Mol. Biol.* 25: 717-724.

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