

CD147 recombinant antibody

Anti-CD147 [OX-114], Rat IgG1, kappa

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA72477	Rat	Mouse	Immunoprecipitation, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

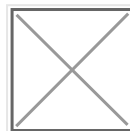
PRODUCT SYNONYMS

CD147; Monoclonal Recombinant Antibody; Anti-CD147 [OX-114]; Rat IgG1; kappa; Basigin; basic immunoglobulin superfamily; HT7 antigen; membrane glycoprotein gp42; gp42; gp42; OX114; MRC OX-114; MRC OX114; CD147 recombinant antibody

PRODUCT SPECIFICATIONS

Host	Rat
Reactivity	Mouse
Clonality	Monoclonal
Isotype	Rat IgG1 kappa
Clone Number	OX-114
Specificity	OX-114 binds to both the 2- and 3-domain isoforms of CD147. CD147 targets monocarboxylate transporters to the plasma membrane, and is involved in spermatogenesis, embryo implantation, neural network fomration and tumor progression. Stimulates production of matrix metalloproteases. Possibly a receptor for oligomannosidic glycans. CD147 found only in vascular endothelium in non-neoplastic regions of the brain whereas it is present in tmour cells but not in proliferating blood vessels in malignant gliomas.
Purity/Purification	Protein A affinity purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Applicable Applications for CD147 recombinant antibody	IP (Immunoprecipitation), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.

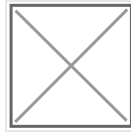
IMAGES



WB (Western Blot)

Western Blot using anti-CD147 antibody OX-

114 (AAA72477) Mouse liver lysate (A), mouse brain lysate (B) and mouse heart lysate (C) samples (35 ug protein in RIPA buffer) were resolved on a 10% SDS PAGE gel and blots probed with the chimeric rabbit IgG version of OX-114 (AAA72477) at 2, 2 and 1 ug/ml, respectively, before detection using an anti-rabbit secondary antibody. A primary incubation of 1 h was used and protein was detected by chemiluminescence. The expected running size for CD147 is 42.4 kDa.



FCM/FACS (Flow Cytometry)

Flow-cytometry using the anti-CD147 antibody OX-114 (AAA72477). NIH3T3 cells were fixed using 2% PFA, permeabilised using 0.5% Triton and stained with unimmunized rabbit IgG antibody (MOPC-21; isotype control, black line) or the rabbit IgG-chimeric version of OX-114 (AAA72477, blue line) at a dilution of 1:100 for 1 hour at RT. After washing, bound antibody was detected using a goat anti-rabbit IgG Alexa Fluor 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.

ADDITIONAL INFORMATION

Related Product Information for CD147 recombinant antibody	OX-114 was generated by immunizing rats with recombinant mCD147d0-2rCD4d3+4.
References	Hanna et al. A novel form of the membrane protein CD147 that contains an extra Ig-like domain and interacts homophilically. BMC Biochem 4:17 2003 N/A14606962 Note on publication: Describes the original use of this antibody as part of FC and IP studies to identify new markers for activated T cells.

NCBI AND UNIPROT INFORMATION

NCBI GI #	116014342
NCBI GeneID	12215
NCBI Accession #	NP_001070652.1
NCBI GenBank Nucleotide #	NM_001077184.1
UniProt Accession #	P18572; Q6LDB0; Q7TSC0
Molecular Weight	29,674 Da
NCBI Official Full Name	basigin isoform 2
NCBI Official Synonym Full Names	basigin
NCBI Official Symbol	Bsg
NCBI Official Synonym Symbols	HT-7; CD147; EMMPRIN; AI115436; AI325119
NCBI Protein Information	basigin; 5A11/Basigin; HT7 antigen; basic immunoglobulin superfamily; gp 42; membrane glycoprotein gp42; neurothelin
UniProt Protein Name	Basigin
UniProt Gene Name	Bsg
UniProt Entry Name	BASI_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd147-recombinant-antibody-clone-ox-114-immunoprecipitation-flow-cytometry-immunohistochemistry-western-blot-elisa/72477>