

Anti-Basigin [Ab-1] Standard Size Ab00524-10.7

This antibody is in our proprietary AbFab2™ recombinant F(ab2) format - based on Human IgG1 sequence with a short dimerization domain to improve stability and a his tag.

This chimeric human antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human F(ab)2, AbFab2™ His-Tagged, Kappa

Clone Number: Ab-1

Alternative Name(s) of Target: CD147; BSG; Cluster of differentiation 147; Extracellular matrix metalloproteinase inducer; EMMPRIN; 5F7; Collagenase stimulatory factor; Leukocyte activation antigen M6; Tumor cell-derived collagenase stimulatory factor; TCSF

UniProt Accession Number of Target Protein: P35613

Published Application(s): Block, ELISA

Published Species Reactivity: Human

Immunogen: Recombinant ectodomains of human basigin.

Specificity: The antibody binds to basigin with an affinity (Kd) of 4 nM reported for the original antibody.

Application Notes: The antibody binds specifically to basigin, a protein of the immunoglobulin superfamily which is expressed on the surface of erythrocyte and acts as a receptor for the human malaria parasite *P. falciparum*. The recombinant chimeric monoclonal antibody Ab-1 acts by blocking the interaction between basigin and PfRH5, a ligand necessary for the *P. falciparum* erythrocyte invasion, thereby inhibiting the development of malaria.

Antibody First Published in: Zenonos ZA, Dummler SK, Müller-Sienerth N, Chen J, Preiser PR, Rayner JC, Wright GJ. Basigin is a druggable target for host-oriented antimalarial interventions. *J Exp Med*. 2015 Jul 27;212(8):1145-51. [PMID:26195724](#)

Note on publication: Describes the development of the recombinant chimeric antibody Ab-1 directed against basigin, an erythrocyte receptor involved in parasite invasion.

Product Form

Size: 200 µg Purified antibody.

Purification: Purified by Immobilized Metal Affinity Chromatography

Supplied In:

PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.