

Anti-CD166 [EJ212/007-C12-5] Standard Size Ab02669-23.0

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

Isotype and Format: Rabbit IgG, Kappa

Clone Number: EJ212/007-C12-5

Alternative Name(s) of Target: CD166 antigen; ALCAM; Activated leukocyte cell adhesion molecule

UniProt Accession Number of Target Protein: Q13740

Published Application(s): functional assay, IP, WB, ELISA, IHC

Published Species Reactivity: Human

Immunogen: This antibody was identified and then reformatted and recombinantly expressed.

Specificity: This antibody is specific for human CD166. CD166 is a protein found in cancer tissues. CD166 is also cell adhesion molecule that mediates both heterotypic cell-cell contacts via its interaction with CD6, as well as homotypic cell-cell contacts. Promotes T-cell activation and proliferation via its interactions with CD6. Contributes to the formation and maturation of the immunological synapse via its interactions with CD6.

Application Notes: The ability of the scFv version of this antibody to bind to PM-1, PBL and granulocytes was assayed by ELISA and flow cytometry. This confirmed that it only bound PM-1 (CA2682059A1). Furthermore the selectivity of the scFv version of this antibody was tested on human tumor tissues including breast, prostate and kidney tumors from 11-14 different donors. breast, prostate and kidney tumors showed the strongest binding. Then to test the specificity of tumors versus normal tissue a tissue microarray with 13 human breast tumor tissues and to a tissue microarray with 4 normal breast tissues using immunohistochemistry staining was performed with the scFv version of this antibody. 6/13 tumors showed specific staining and none of the normal tissues showed any staining (CA2682059A1). To capture the antigen to which this antibody binds, immunoprecipitation was performed with the human version of this antibody (CA2682059A1). Furthermore the immunoprecipitated protein was blotted using the human version of this antibody (CA2682059A1). To evaluate the activity of the human version of this antibody as an inducer of apoptosis the effect of the antibody on BT474 was studied. It did indeed induce apoptosis. (CA2682059A1). By detecting the scFv version of this antibody with a secondary antibody it was determined that PM-1 cells showed some internalization of this antibody (CA2682059A1).

Antibody First Published in: [PMID:](#)

Note on publication:

Product Form

Size: 200 µg Purified antibody.

Purification: Protein A affinity purified

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.