

Anti-CD146 [IR94] Bulk Size Ab00908-10.3-BT

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

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

Isotype and Format: Human IgG1, Fc Silent™, Lambda

Clone Number: IR94

Alternative Name(s) of Target: MUC18; melanoma cell adhesion molecule; MCAM; Cell surface glycoprotein MUC18; Cell surface glycoprotein P1H12; Melanoma cell adhesion molecule; Melanoma-associated antigen A32; Melanoma-associated antigen MUC18; S-endo 1 endothelial-associated antigen

UniProt Accession Number of Target Protein: P43121

Published Application(s): inhibition, WB, ELISA, FC

Published Species Reactivity: Human

Immunogen: This antibody was generated by phage display, during which phage were added to immunotubes coated in the MUC18 antigenic peptide. TG-1 bacteria were then infected by the phage before four rounds of panning were performed to select scFvs with high affinity and specificity for the MUC18 epitope.

Specificity: This antibody is specific for the Wnt-5a binding site on human MUC18.

Application Notes: The specificity and cell surface binding ability of this scFv has been confirmed in ELISA, WB and FC analysis (Mohammadi et al, 2017). This scFv recognises cell surface receptor MUC18, expression of which is altered on epithelial tumors, playing an important role in metastasis. In in vitro assays, this scFv significantly inhibits the migration and invasion of an MUC18-expressing cell line (Mohammadi et al, 2017), and has the potential to be employed in breast cancer immunotherapy.

Antibody First Published in: Mohammadi et al. Anti-Metastatic and Anti-Invasion Effects of a Specific Anti-MUC18 scFv Antibody on Breast Cancer Cells Appl Biochem Biotechnol. 2017 Jan;181(1):379-390. doi: 10.1007/s12010-016-2218-1. Epub 2016 Aug 27. [PMID:27565656](#)

Note on publication: Describes the original generation of this antibody by phage display, and its use in ELISA, WB and FC analysis.

Product Form

Size: 1 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. 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.