

Datasheet for ABIN5692199 **MCAM ELISA Kit**



[Go to Product page](#)

Overview

Quantity: 96 tests

Target: MCAM

Binding Specificity: AA 24-559

Reactivity: Human

Method Type: Sandwich ELISA

Detection Range: 62.5 pg/mL - 4000 pg/mL

Minimum Detection Limit: 62.5 pg/mL

Application: ELISA

Product Details

Purpose: Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human MCAM. 96wells/kit, with removable strips.

Sample Type: Cell Culture Supernatant, Serum

Analytical Method: Quantitative

Detection Method: Colorimetric

Specificity: Expression system for standard: NSO, Immunogen sequence: V24-G559

Sensitivity: < 10 pg/mL

Components: 96-well plate precoated with antibody
lyophilized recombinant standard
biotinylated antibody (dilution 1:100)

Product Details

Avidin-Biotin-Peroxidase Complex(ABC)(dilution 1:100)
Sample diluent buffer
Antibody diluent buffer
ABC diluent buffer
TMB color developing agent
TMB stop solution
Adhesive cover

Target Details

Target: MCAM

Alternative Name: MCAM

Background: Synonyms: 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, CD146, MCAM, MUC18

Tissue Specificity: Detected in endothelial cells in vascular tissue throughout the body. May appear at the surface of neural crest cells during their embryonic migration. Appears to be limited to vascular smooth muscle in normal adult tissues. Associated with tumor progression and the development of metastasis in human malignant melanoma. Expressed most strongly on metastatic lesions and advanced primary tumors and is only rarely detected in benign melanocytic nevi and thin primary melanomas with a low probability of metastasis.

Background: CD146 (cluster of differentiation 146) also known as the melanoma cell adhesion molecule (MCAM) or cell surface glycoprotein MUC18, is a 113 kDa cell adhesion molecule currently used as a marker for endothelial cell lineage. In humans, the CD146 protein is encoded by the MCAM gene. By radiation hybrid analysis, it mapped the CD146 gene to chromosome 11q23.3. It is a member of the immunoglobulin superfamily, is homologous to several cell adhesion molecules and is associated with tumor progression and the development of metastasis in human malignant melanoma. CD146 has been demonstrated to appear on a small subset of T and B lymphocytes in the peripheral blood of healthy individuals. The CD146+ T cells display an immunophenotype consistent with effector memory cells and have a distinct gene profile from the CD146- T cells. CD146 has been seen as a marker for mesenchymal stem cells isolated from multiple adult and fetal organs, and its expression may be linked to multipotency, mesenchymal stem cells with greater differentiation potential express higher levels of CD146 on the cell surface.

Cellular Localisation: Membrane, Single-pass type I membrane protein.

Target Details

UniProt: [P43121](#)

Application Details

Assay Time: 15 min

Plate: Pre-coated

Restrictions: For Research Use only

Handling

Storage: 4 °C, -20 °C

Storage Comment: Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

Expiry Date: 12 months