

DESCRIPTION

Target:	MAL
Target aliases:	Myelin And Lymphocyte Protein, T-cell differentiation protein MAL, VIP17
Fc isotype:	IgG2a
Membrane proteome specificity:	Monospecific for 6,000 membrane proteins tested
Species reactivity:	Human (Others untested)
Extracellular epitope:	Yes
Fc modifications:	C-terminal Avitag ¹ , disabled Fc-γ receptor binding ²
Source:	Recombinant CHO expression; purified by Protein A chromatography
Formulation:	Endotoxin Free PBS pH 7.4, sterile-filtered
Concentration:	1 mg/ml

1. A peptide tag that can be biotinylated in vitro using the biotin ligase enzyme (BirA).
2. Mutated Fc-γ receptor binding site to minimize non-specific antibody binding.

MAL TARGET INFORMATION

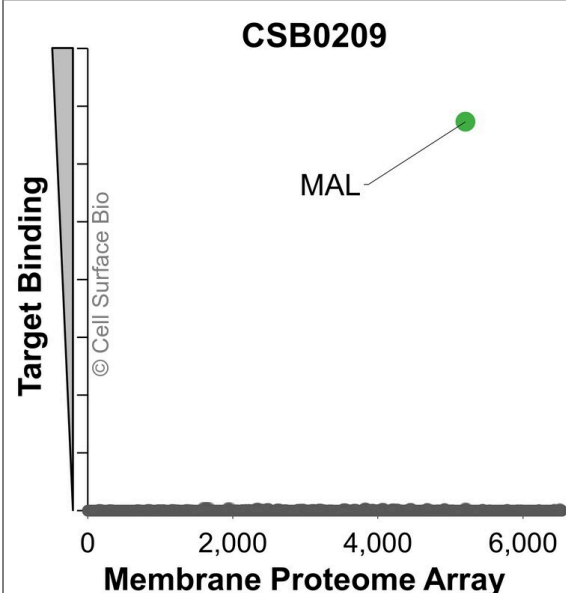
Myelin and lymphocyte protein (MAL) is a member of the MAL proteolipid protein family, characterized by its four transmembrane domains and localization to lipid raft microdomains. It is primarily expressed in T lymphocytes and polarized epithelial cells, where it plays a role in membrane trafficking and apical transport. MAL is also involved in the stabilization of membrane compartments and has been implicated in the formation of glycosphingolipid-enriched membranes. (NCBI Gene: 4118, UniProtKB/Swiss-Prot: P21145) Other names: Myelin And Lymphocyte Protein, T-cell differentiation protein MAL, VIP17

SHIPPING AND STORAGE

Shipping:	Shipped at ambient temperature. Store at 4°C.
Stability & Storage:	Stable for 12 months from date of receipt when stored at 4°C. Avoid repeated freeze-thaw cycles.

VALIDATION DATA

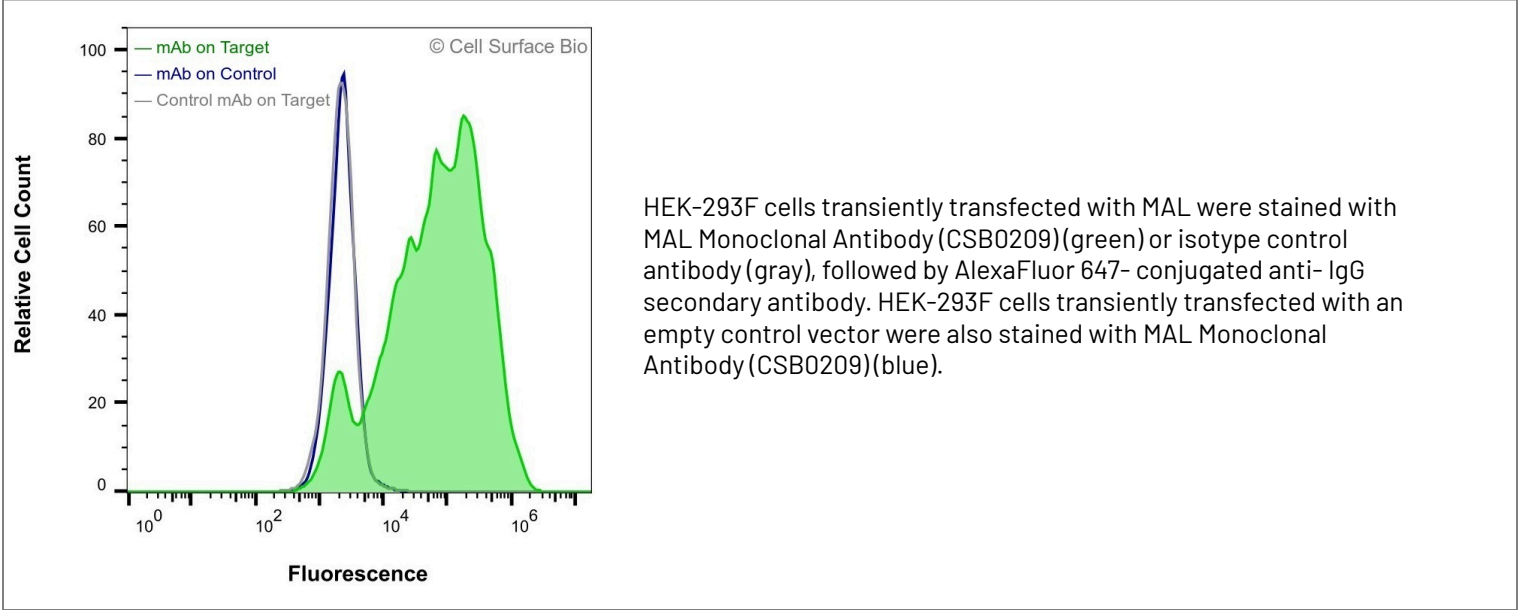
Membrane Proteome Specificity



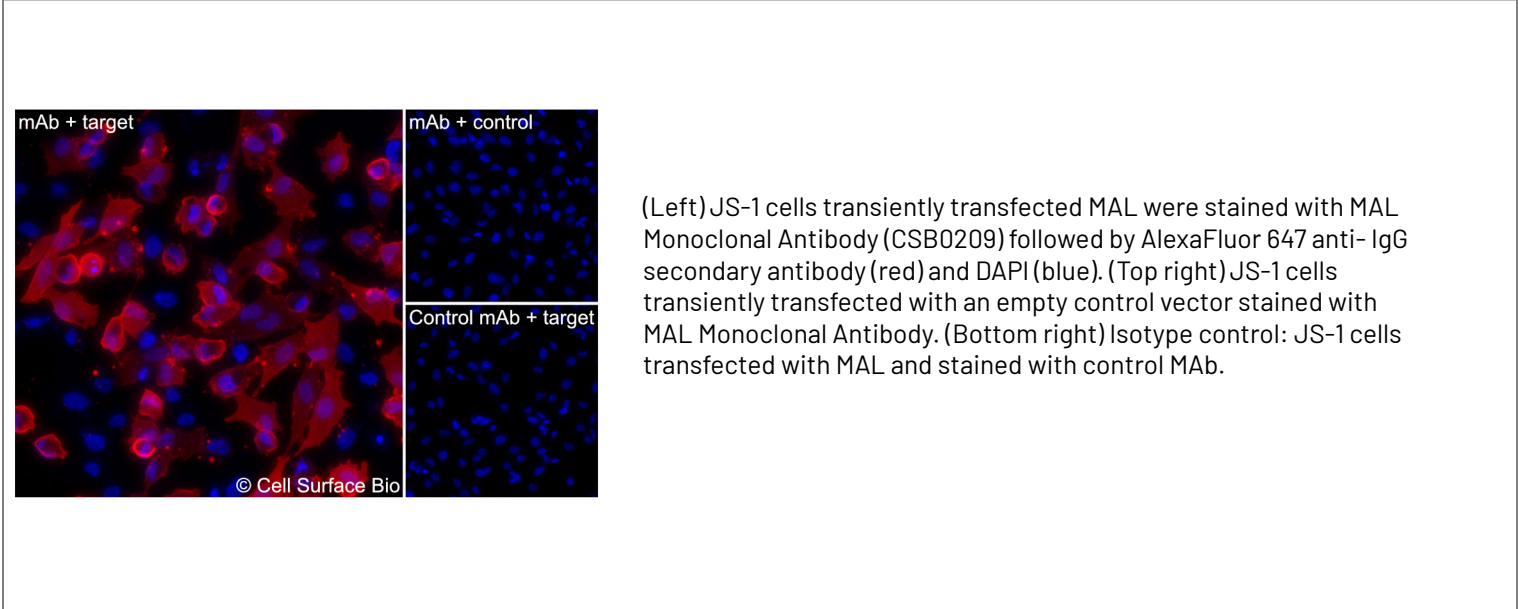
The specificity of MAL Monoclonal Antibody (CSB0209) was tested on the Membrane Proteome Array™ and shown to be specific for MAL.

The Membrane Proteome Array™ contains 6,000 different human membrane proteins, each expressed in unfixed human cells to ensure native conformation and post-translational modifications. The Membrane Proteome Array™ represents the industry standard for determining the binding specificity of antibodies and other protein ligands.

Applications	Conditions	Recommended concentration
Flow Cytometry, Extracellular	Live, Unpermeabilized	1 µg/ml



Applications	Conditions	Recommended concentration
Immunofluorescence, Extracellular	Fixed 4% paraformaldehyde	1 µg/ml



Applications

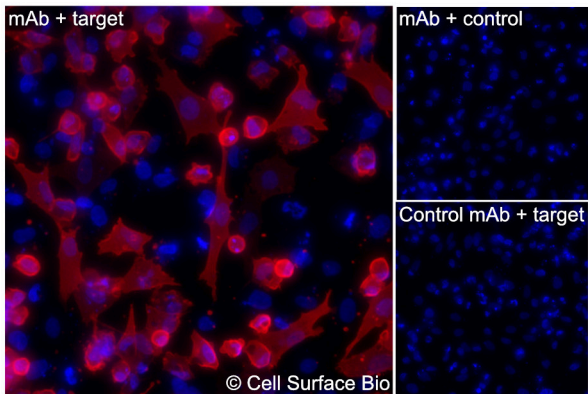
Immunofluorescence, Intracellular

Conditions

Fixed 4% paraformaldehyde,
Permeabilized 0.1% Triton X-100

Recommended concentration

1 µg/ml



(Left) JS-1 cells transiently transfected MAL were permeabilized and stained with MAL Monoclonal Antibody (CSB0209) followed by AlexaFluor 647 anti- IgG secondary antibody (red) and DAPI (blue). (Top right) JS-1 cells transiently transfected with an empty control vector stained with MAL Monoclonal Antibody. (Bottom right) Isotype control: JS-1 cells transfected with {{target}} and stained with control MAb.