

DESCRIPTION

Target:	LRRc15
Target aliases:	LIB, LRRc15, hLib, leucine-rich repeat-containing membrane protein
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.

LRRc15 TARGET INFORMATION

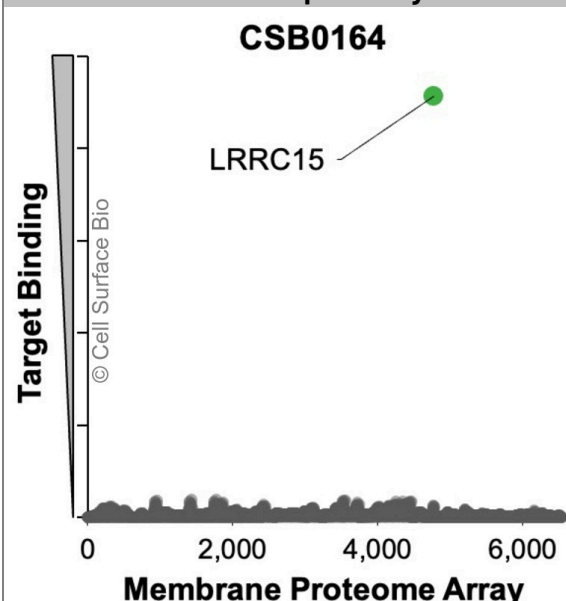
Leucine-rich repeat-containing protein 15 (LRRc15) is a type I transmembrane protein belonging to the leucine-rich repeat (LRR) superfamily, characterized by tandem LRR motifs that facilitate protein-protein interactions. It is expressed at low levels in normal tissues but can be upregulated in fibroblasts and certain stromal or epithelial cell types. LRRc15 is localized to the plasma membrane and has been implicated in cell adhesion and extracellular matrix interactions, although its precise biological function remains unclear. Its structure includes an extracellular LRR domain, a single transmembrane region, and a short cytoplasmic tail. (NCBI Gene: 131578, UniProtKB/Swiss-Prot: Q8TF66) Other names: LIB, LRRc15, hLib, leucine-rich repeat-containing membrane protein

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

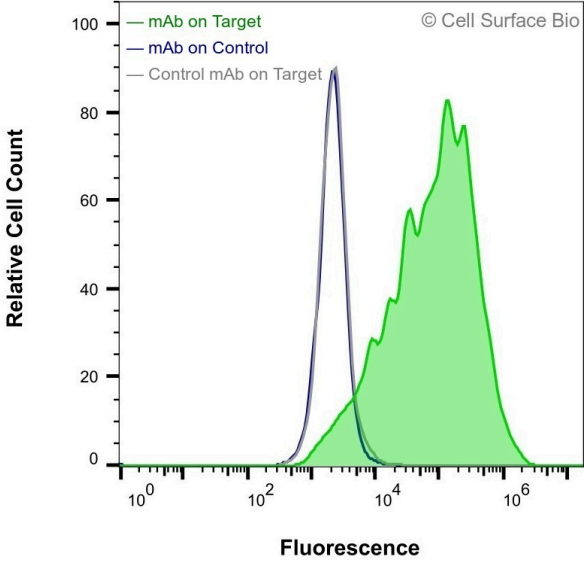
Membrane Proteome Specificity



The specificity of LRRc15 Monoclonal Antibody (CSB0164) was tested on the Membrane Proteome Array™ and shown to be specific for LRRc15.

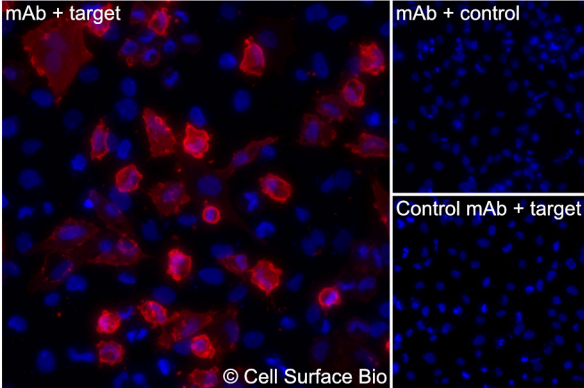
The Membrane Proteome Array™ contains 6,000 different human membrane proteins, each expressed in unfixed human cells to ensure native conformation and post-translational modifications. The Membrane Proteome Array™ represents the industry standard for determining the binding specificity of antibodies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

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



HEK-293F cells transiently transfected with LRRC15 were stained with LRRC15 Monoclonal Antibody (CSB0164) (green) or isotype control antibody (gray), followed by AlexaFluor 647- conjugated anti- IgG secondary antibody. HEK-293F cells transiently transfected with an empty control vector were also stained with LRRC15 Monoclonal Antibody (CSB0164) (blue).

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



(Left) JS-1 cells transiently transfected LRRC15 were stained with LRRC15 Monoclonal Antibody (CSB0164) 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 LRRC15 Monoclonal Antibody. (Bottom right) Isotype control: JS-1 cells transfected with LRRC15 and stained with control MAb.

Applications

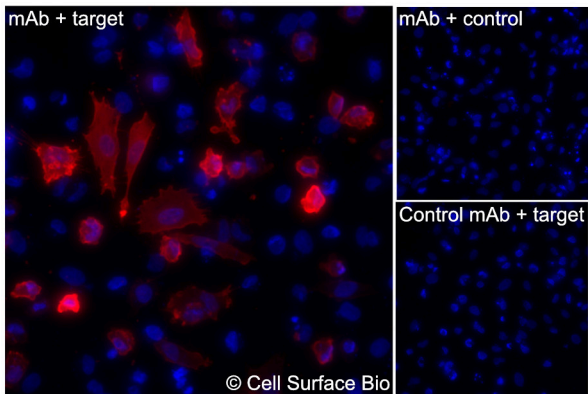
Immunofluorescence, Intracellular

Conditions

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

Recommended concentration

1 µg/ml



(Left) JS-1 cells transiently transfected LRRC15 were permeabilized and stained with LRRC15 Monoclonal Antibody (CSB0164) 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 LRRC15 Monoclonal Antibody. (Bottom right) Isotype control: JS-1 cells transfected with {{target}} and stained with control MAb.