

DESCRIPTION

Target:	EGFR
Target aliases:	ERBB1, ERBB, HER1, EGFR VIII, NISBD2, PIG61, MENA
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.

EGFR TARGET INFORMATION

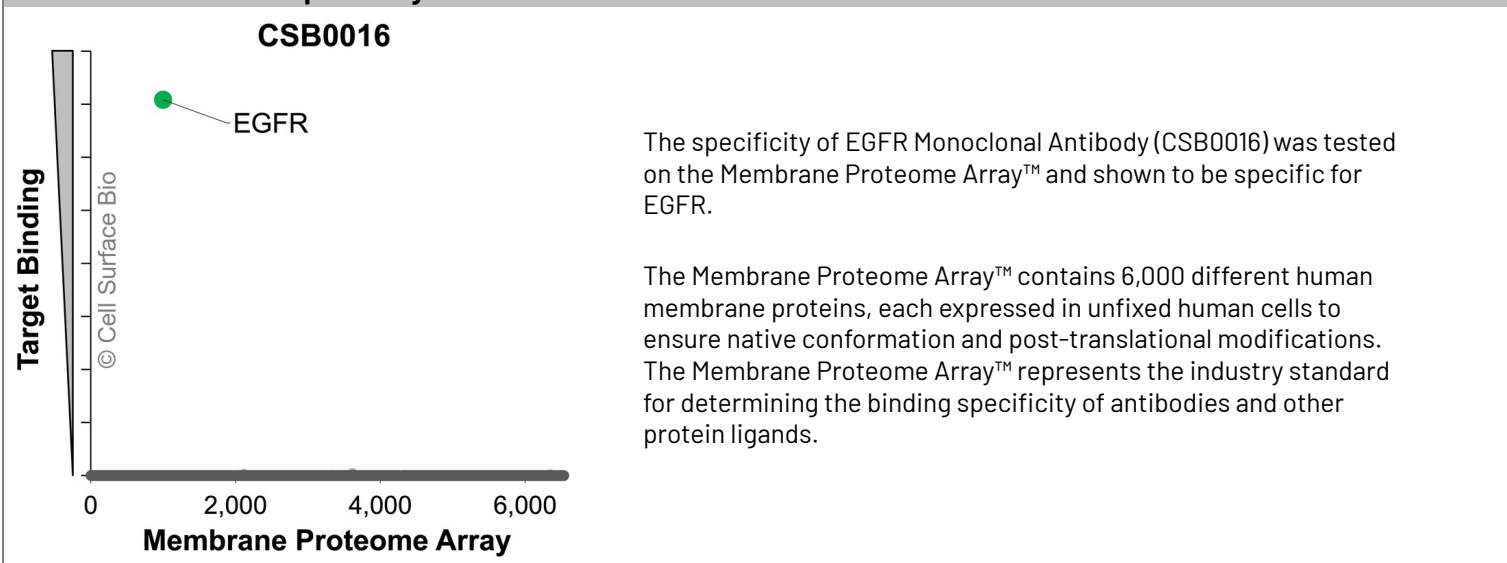
EGFR is a single-pass transmembrane protein and member of the protein kinase superfamily that binds proteins in the epidermal growth factor family, causing receptor dimerization and tyrosine autophosphorylation, which activate signaling cascades. EGFR is involved in cell proliferation and migration and plays a role in hepatitis C infection and cytokine storm in severe COVID-19. Mutations in the EGFR gene are also associated with lung cancer. (NCBI Gene: 1956, UniProtKB/Swiss-Prot: P00533) Other names: ERBB1, ERBB, HER1, EGFR VIII, NISBD2, PIG61, MENA

SHIPPING AND STORAGE

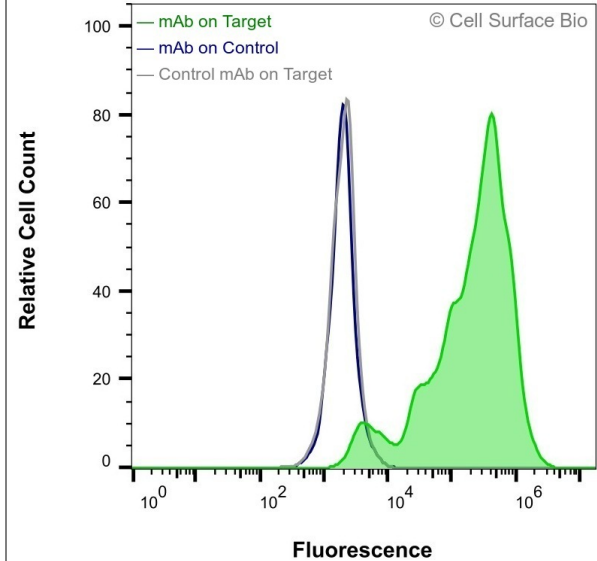
Shipping:	Shipped at ambient temperature. Store at 4°C.
Stability & Storage:	Stable for 12 months from date of receipt when stored at 4°C. Avoid repeated freeze-thaw cycles.

VALIDATION DATA

Membrane Proteome Specificity

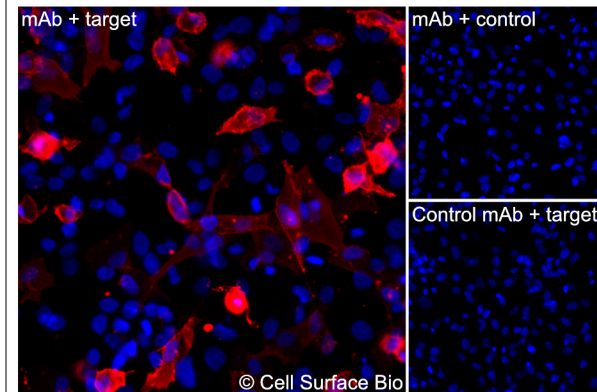


Applications	Conditions	Recommended concentration
Flow Cytometry, Extracellular	Live, Unpermeabilized	1 µg/ml



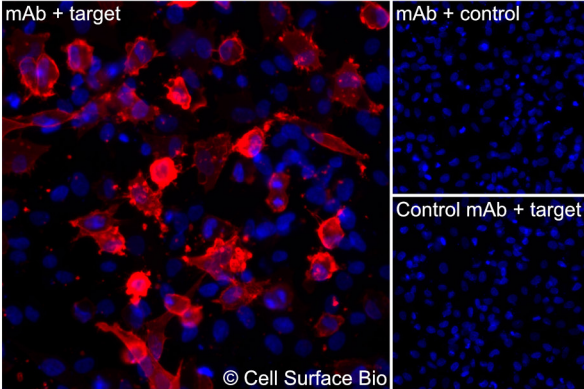
JS-1 cells transiently transfected with EGFR were stained with EGFR Monoclonal Antibody (CSB0016) (green) or isotype control antibody (gray), followed by AlexaFluor 647- conjugated anti- IgG secondary antibody. JS-1 cells transiently transfected with an empty control vector were also stained with EGFR Monoclonal Antibody (CSB0016) (blue).

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



(Left) JS-1 cells transiently transfected EGFR were stained with EGFR Monoclonal Antibody (CSB0016) 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 EGFR Monoclonal Antibody. (Bottom right) Isotype control: JS-1 cells transfected with EGFR and stained with control MAb.

Applications	Conditions	Recommended concentration
Immunofluorescence, Intracellular	Fixed 4% paraformaldehyde, Permeabilized 0.1% Triton X-100	1 µg/ml



(Left) JS-1 cells transiently transfected EGFR were permeabilized and stained with EGFR Monoclonal Antibody (CSB0016) 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 EGFR Monoclonal Antibody. (Bottom right) Isotype control: JS-1 cells transfected with {{target}} and stained with control MAb.