

DESCRIPTION

Target:	HER3
Target aliases:	ERBB3, LCCS2, P180-ErbB3, P45-SErbB3, P85-SErbB3, MDA-BF-1, C-ErbB-3, C-ErbB3, ErbB3-S, ErbB-3, FERLK, VSCN1.
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

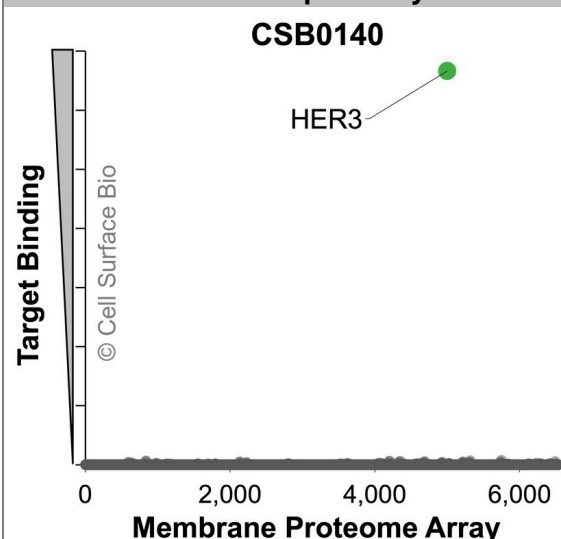
1. A peptide tag that can be biotinylated in vitro using the biotin ligase enzyme (BirA).
2. Mutated Fc-γ receptor binding site to minimize non-specific antibody binding.

HER3 TARGET INFORMATION

HER3 is a single-pass transmembrane protein and part of the epidermal growth factor receptor family of receptor tyrosine kinases. HER3 has a neuregulin binding domain but does not have a kinase domain and instead forms heterodimers with other EGFR family members, activating signaling pathways that cause cell proliferation or differentiation. HER3 is involved in myeloid cell differentiation. Amplification or overexpression of HER3 occurs in prostate, bladder, and breast tumors. (NCBI Gene: 2065, UniProtKB/Swiss-Prot: P21860) Other names: ERBB3, LCCS2, P180-ErbB3, P45-SErbB3, P85-SErbB3, MDA-BF-1, C-ErbB-3, C-ErbB3, ErbB3-S, ErbB-3, FERLK, VSCN1.

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 HER3 Monoclonal Antibody (CSB0140) was tested on the Membrane Proteome Array™ and shown to be specific for HER3.

The Membrane Proteome Array™ contains 6,000 different human membrane proteins, each expressed in unfixed avian 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.

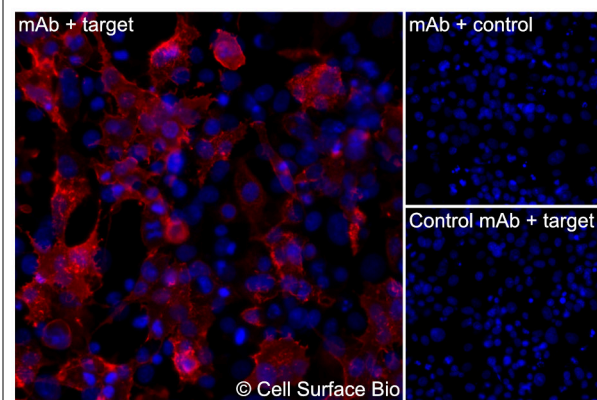
Applications	Conditions	Recommended concentration
Flow Cytometry, Extracellular	Live, Unpermeabilized	1 µg/ml

HEK-293F cells transiently transfected with HER3 were stained with HER3 Monoclonal Antibody (CSB0140)(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 HER3 Monoclonal Antibody (CSB0140)(blue).

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

(Left) COS-7 cells transiently transfected HER3 were stained with HER3 Monoclonal Antibody (CSB0140) followed by AlexaFluor 647 anti- IgG secondary antibody (red) and DAPI (blue). (Top right) COS-7 cells transiently transfected with an empty control vector stained with HER3 Monoclonal Antibody. (Bottom right) Isotype control: COS-7 cells transfected with HER3 and stained with control MAb.

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



(Left) COS-7 cells transiently transfected HER3 were permeabilized and stained with HER3 Monoclonal Antibody (CSB0140) followed by AlexaFluor 647 anti- IgG secondary antibody (red) and DAPI (blue). (Top right) COS-7 cells transiently transfected with an empty control vector stained with HER3 Monoclonal Antibody. (Bottom right) Isotype control: COS-7 cells transfected with {{target}} and stained with control MAb.