

**DESCRIPTION**

<b>Target:</b>	HER2/ERBB2
<b>Target aliases:</b>	ERBB2, NEU, CD340, NGL, MLN19, VSCN2, TKR1
<b>Fc isotype:</b>	Mouse IgG2a
<b>Membrane proteome specificity:</b>	Monospecific for 6,000 membrane proteins tested
<b>Species reactivity:</b>	Human (others untested)
<b>Epitope:</b>	
<b>Fc modifications:</b>	C-terminal Avitag <sup>1</sup> , disabled Fc-γ receptor binding <sup>2</sup>
<b>Source:</b>	Recombinant CHO expression; purified by Protein A chromatography
<b>Formulation:</b>	Endotoxin Free PBS pH 7.4, sterile-filtered
<b>Concentration:</b>	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 to endogenously-expressed Fc-γ receptors on target cells.

**HER2/ERBB2 TARGET INFORMATION**

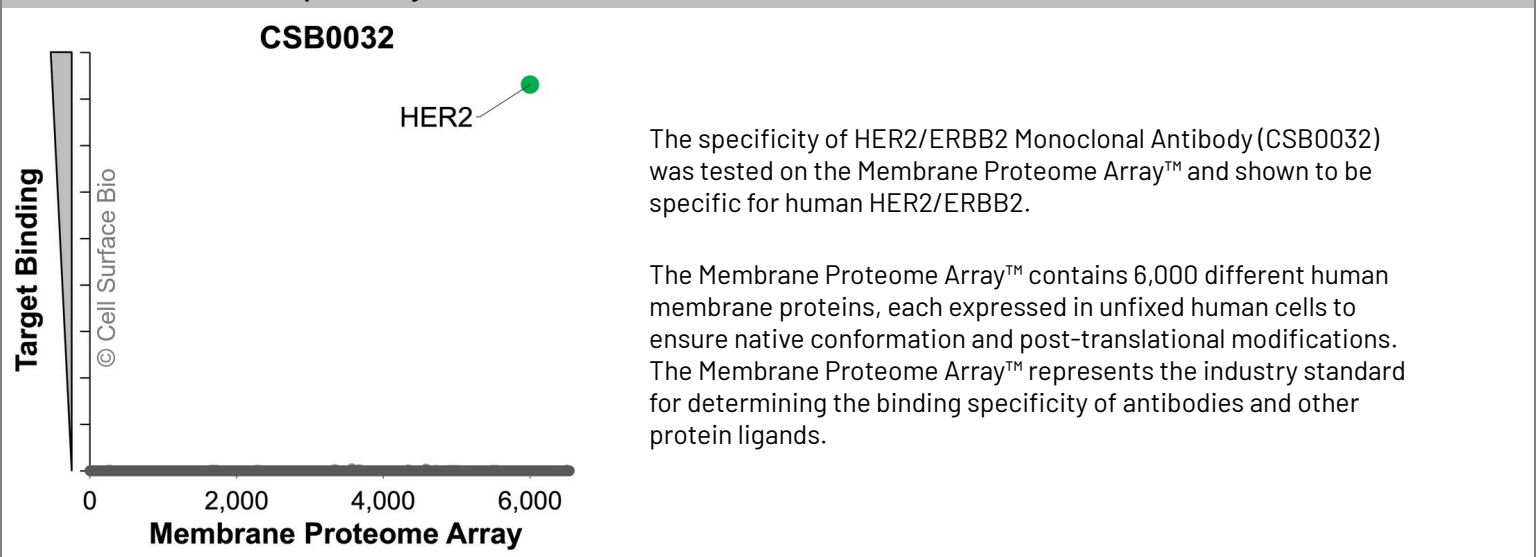
HER2 (also known as ERBB2) is a single-pass transmembrane protein and member of the epidermal growth factor (EGF) receptor family. This tyrosine kinase does not have a ligand-binding domain. Instead, HER2 stabilizes ligand binding and enhances activation of signaling pathways by forming a heterodimer with ligand-binding EGF receptor family members. HER2 regulates outgrowth and stabilization of peripheral microtubules and is overexpressed in multiple types of cancer, including breast and ovarian cancers. (NCBI Gene: 2064, UniProtKB/Swiss-Prot: P04626). Other names: ERBB2, NEU, CD340, NGL, MLN19, VSCN2, TKR1

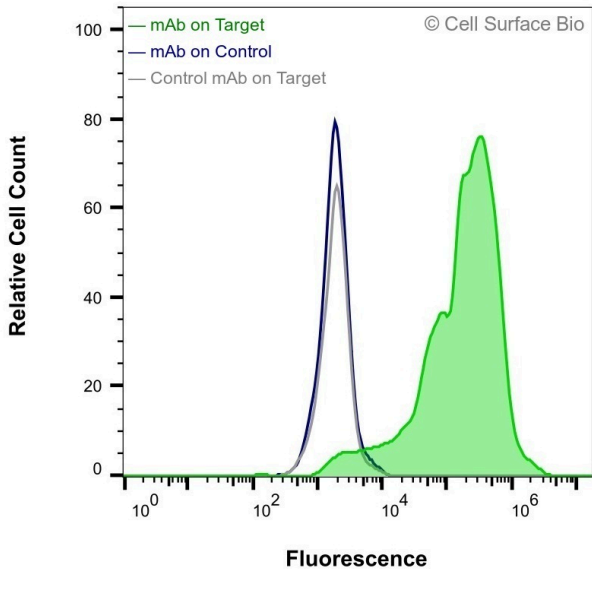
**SHIPPING AND STORAGE**

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

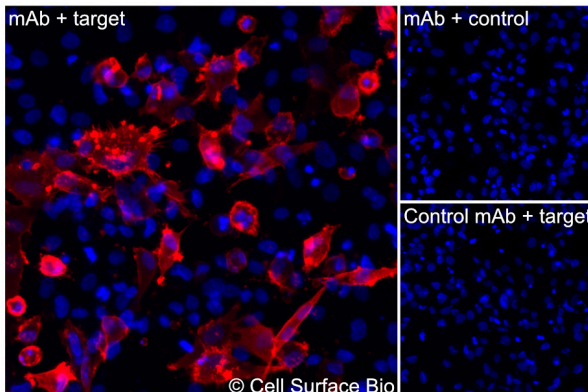
**VALIDATION DATA**

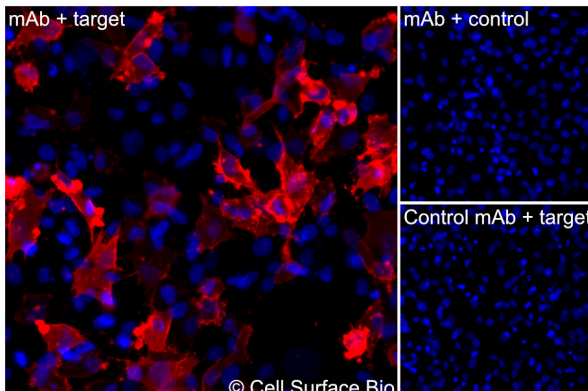
**Membrane Proteome Specificity**





JS-1 cells transiently transfected with human HER2/ERBB2 were stained with HER2/ERBB2 Monoclonal Antibody (CSB0032)(green) or isotype control antibody (gray), followed by AlexaFluor 647-conjugated anti-mouse IgG secondary antibody. JS-1 cells transiently transfected with an empty control vector were also stained with HER2/ERBB2 Monoclonal Antibody (CSB0032)(blue).

Applications	Conditions	Recommended concentration
Immunofluorescence, Extracellular	Fixed 4% paraformaldehyde	1 µg/ml
		
<p>(A) JS-1 cells transiently transfected with human HER2/ERBB2 were stained with HER2/ERBB2 Monoclonal Antibody (CSB0032) followed by AlexaFluor 647 anti-mouse IgG secondary antibody (red) and DAPI (blue). (B) JS-1 cells transiently transfected with an empty control vector stained with HER2/ERBB2 Monoclonal Antibody. (C) Isotype control: JS-1 cells transfected with human HER2/ERBB2 and stained with control MAb.</p>		

Applications	Conditions	Recommended concentration
Immunofluorescence, Intracellular	Fixed 4% paraformaldehyde, Permeabilized 0.1% Triton X-100	1 µg/ml
		
<p>(A) JS-1 cells transiently transfected with human HER2/ERBB2 were permeabilized and stained with HER2/ERBB2 Monoclonal Antibody (CSB0032) followed by AlexaFluor 647 anti-mouse IgG secondary antibody (red) and DAPI (blue). (B) JS-1 cells transiently transfected with an empty control vector stained with HER2/ERBB2 Monoclonal Antibody. (C) Isotype control: JS-1 cells transfected with human HER2/ERBB2 and stained with control MAb.</p>		