

DESCRIPTION

Target:	CD338
Target aliases:	ABCG2, BCRP, ABCP, MXR, EST157481, CDw338, BCRP1, UAQTL1, ABC15, GOUT1, MXR-1, BMDP, MXR1, MRX
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.

CD338 TARGET INFORMATION

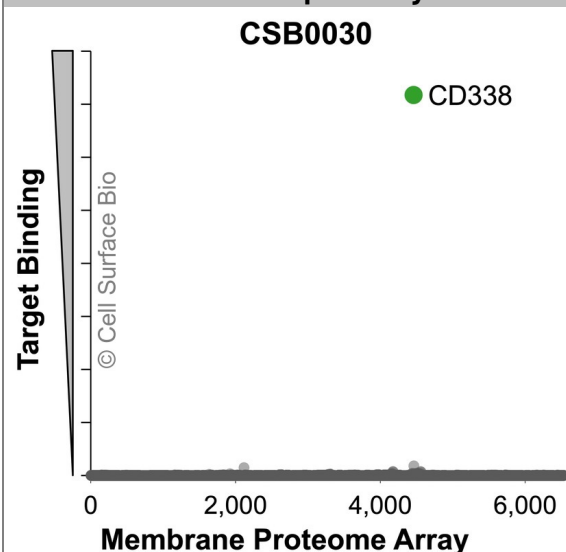
CD338 is a multi-pass transmembrane protein and member of the White subfamily of the superfamily of ATP-binding cassette (ABC) transporters. Specifically, CD338 is a xenobiotic transporter that likely acts as a cellular defense mechanism against mitoxantrone and anthracycline. CD338 is also referred to as a breast cancer resistance protein and may be involved in multi-drug resistance. (NCBI Gene: 9429, UniProtKB/Swiss-Prot: Q9UNQ0) Other names: ABCG2, BCRP, ABCP, MXR, EST157481, CDw338, BCRP1, UAQTL1, ABC15, GOUT1, MXR-1, BMDP, MXR1, MRX

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

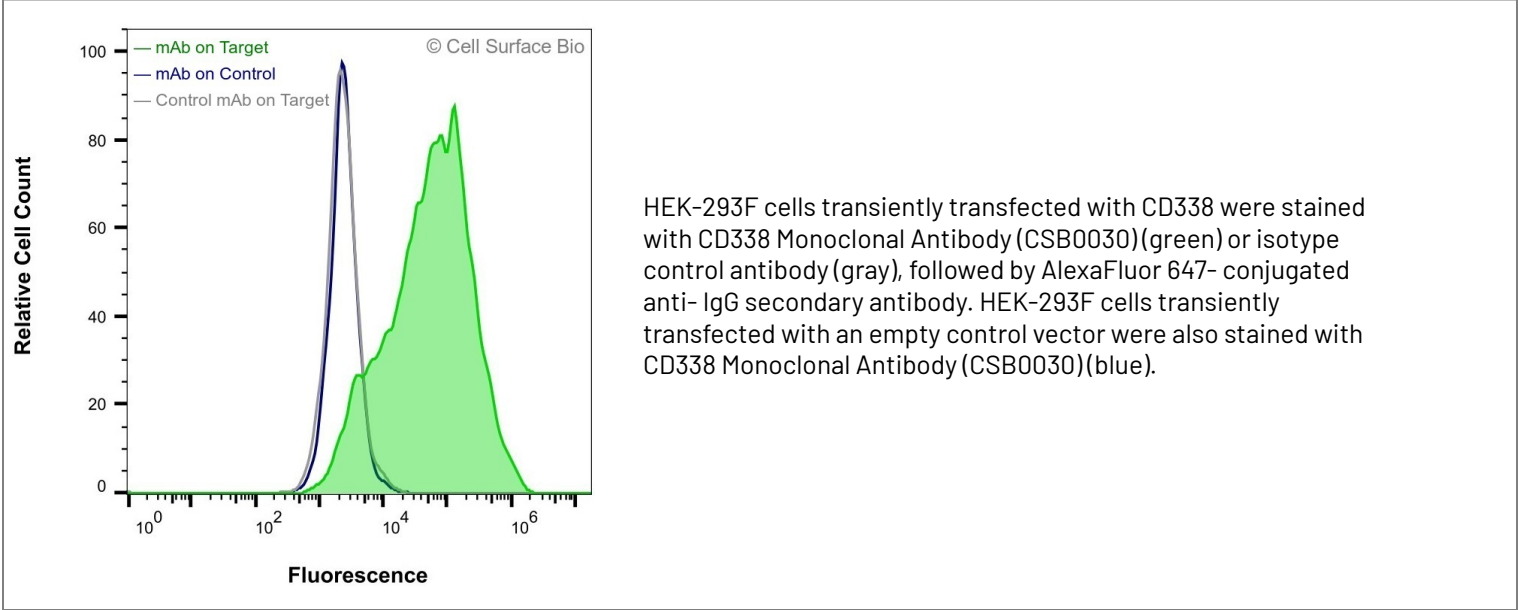
Membrane Proteome Specificity



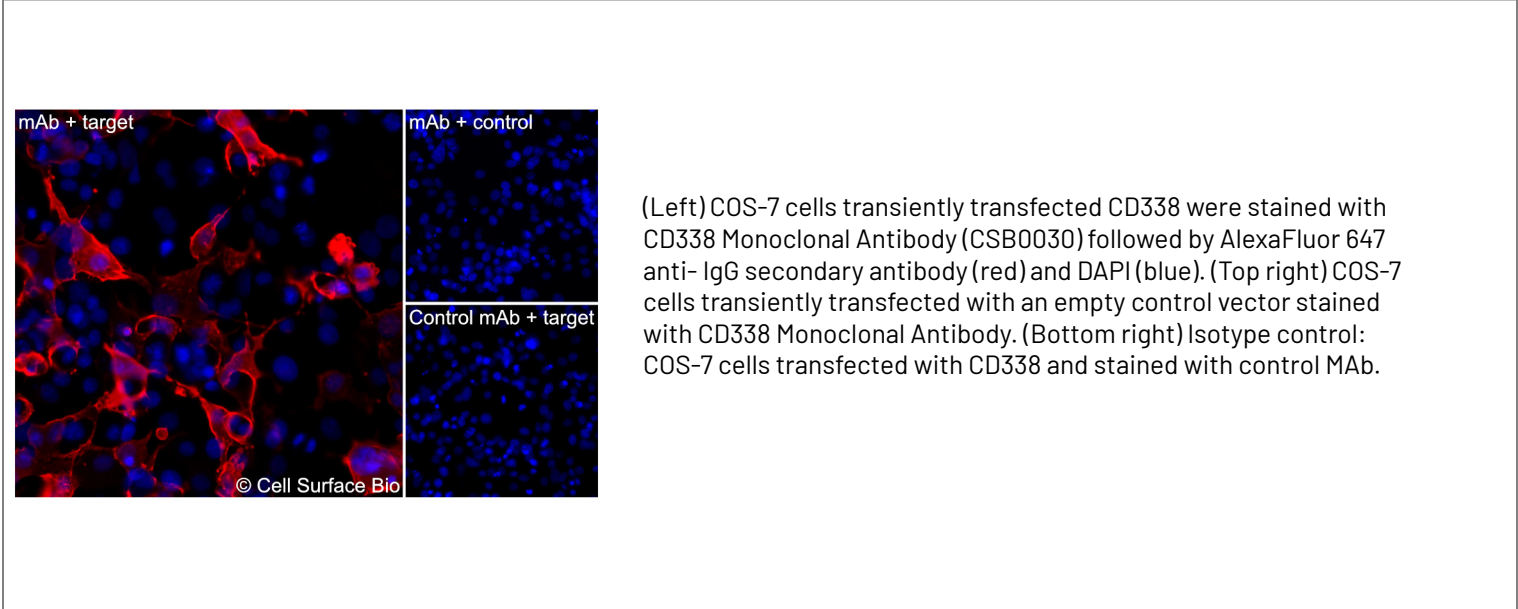
The specificity of CD338 Monoclonal Antibody (CSB0030) was tested on the Membrane Proteome Array™ and shown to be specific for CD338.

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.

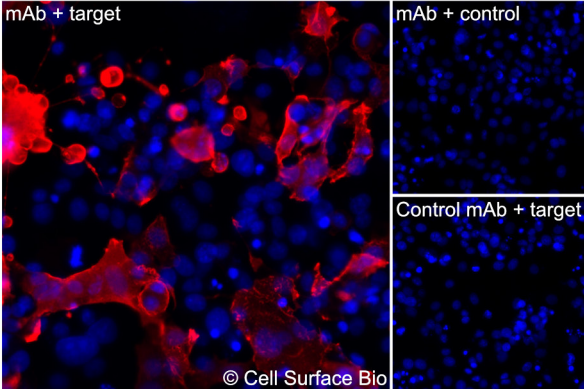
Applications	Conditions	Recommended concentration
Flow Cytometry, Extracellular	Live, Unpermeabilized	1 µg/ml



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



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



(Left) COS-7 cells transiently transfected CD338 were permeabilized and stained with CD338 Monoclonal Antibody (CSB0030) 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 CD338 Monoclonal Antibody. (Bottom right) Isotype control: COS-7 cells transfected with {{target}} and stained with control MAb.