

DESCRIPTION

Target:	CNR1
Target aliases:	CB1, CANN6, CB-R, CB1K5, CB1A, CNR, CB1R
Fc isotype:	Mouse IgG2a
Membrane proteome specificity:	Monospecific for 6,000 membrane proteins tested
Species reactivity:	Human (others untested)
Epitope:	
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

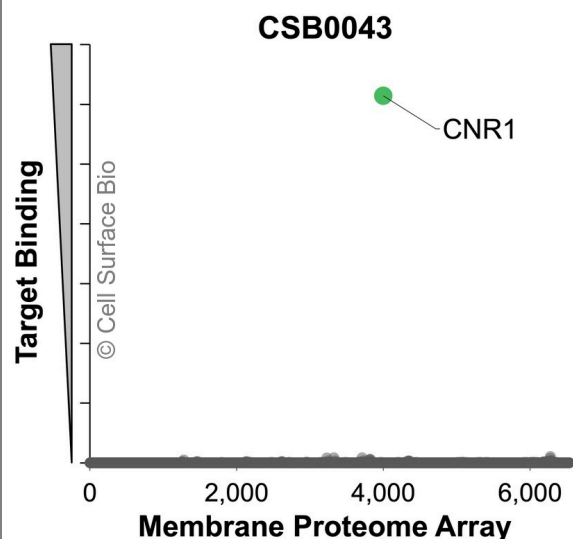
1. A peptide tag that can be biotinylated in vitro using the biotin ligase enzyme (BirA).
2. Mutated Fc-γ receptor binding site to minimize non-specific antibody binding to endogenously-expressed Fc-γ receptors on target cells.

CNR1 TARGET INFORMATION

CNR1 is a multi-pass transmembrane protein and cannabinoid receptor. Cannabinoid receptors are part of the G-protein coupled receptor family and mediate the central nervous system effects of marijuana. (NCBI Gene: 1268, UniProtKB/Swiss-Prot P21554). Other names: CB1, CANN6, CB-R, CB1K5, CB1A, CNR, CB1R

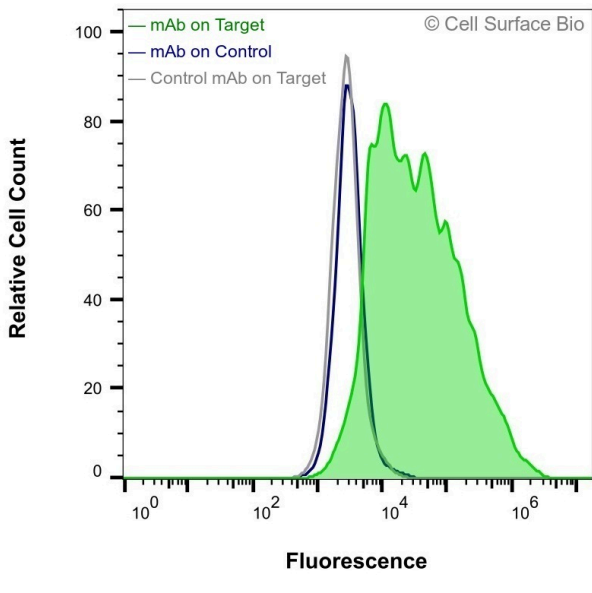
SHIPPING AND STORAGE

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.

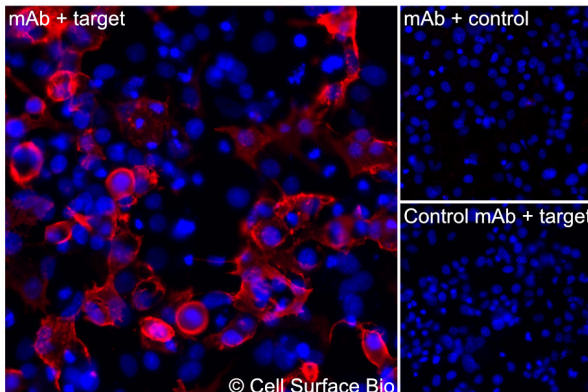
VALIDATION DATA
Membrane Proteome Specificity


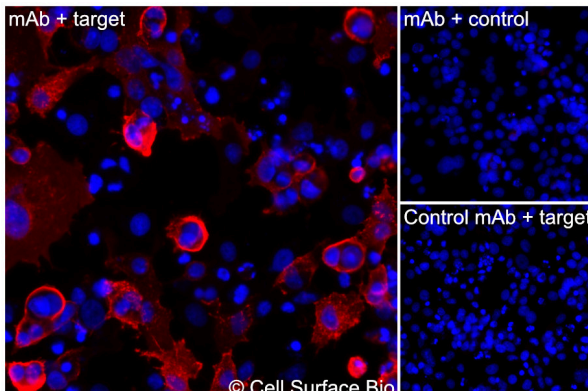
The specificity of CNR1 Monoclonal Antibody (CSB0043) was tested on the Membrane Proteome Array™ and shown to be specific for human CNR1.

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.



HEK-293F cells transiently transfected with human CNR1 were stained with CNR1 Monoclonal Antibody (CSB0043) (green) or isotype control antibody (gray), followed by AlexaFluor 647-conjugated anti-mouse IgG secondary antibody. HEK-293F cells transiently transfected with an empty control vector were also stained with CNR1 Monoclonal Antibody (CSB0043) (blue).

Applications	Conditions	Recommended concentration
Immunofluorescence, Extracellular	Fixed 4% paraformaldehyde	1 µg/ml
		
<p>(A) COS-7 cells transiently transfected with human CNR1 were stained with CNR1 Monoclonal Antibody (CSB0043) followed by AlexaFluor 647 anti-mouse IgG secondary antibody (red) and DAPI (blue). (B) COS-7 cells transiently transfected with an empty control vector stained with CNR1 Monoclonal Antibody. (C) Isotype control: COS-7 cells transfected with human CNR1 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) COS-7 cells transiently transfected with human CNR1 were permeabilized and stained with CNR1 Monoclonal Antibody (CSB0043) followed by AlexaFluor 647 anti-mouse IgG secondary antibody (red) and DAPI (blue). (B) COS-7 cells transiently transfected with an empty control vector stained with CNR1 Monoclonal Antibody. (C) Isotype control: COS-7 cells transfected with human CNR1 and stained with control MAb.</p>		