

DESCRIPTION

Target:	PTHR1
Target aliases:	PTH1R, PTHR, EKNS, PFE
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

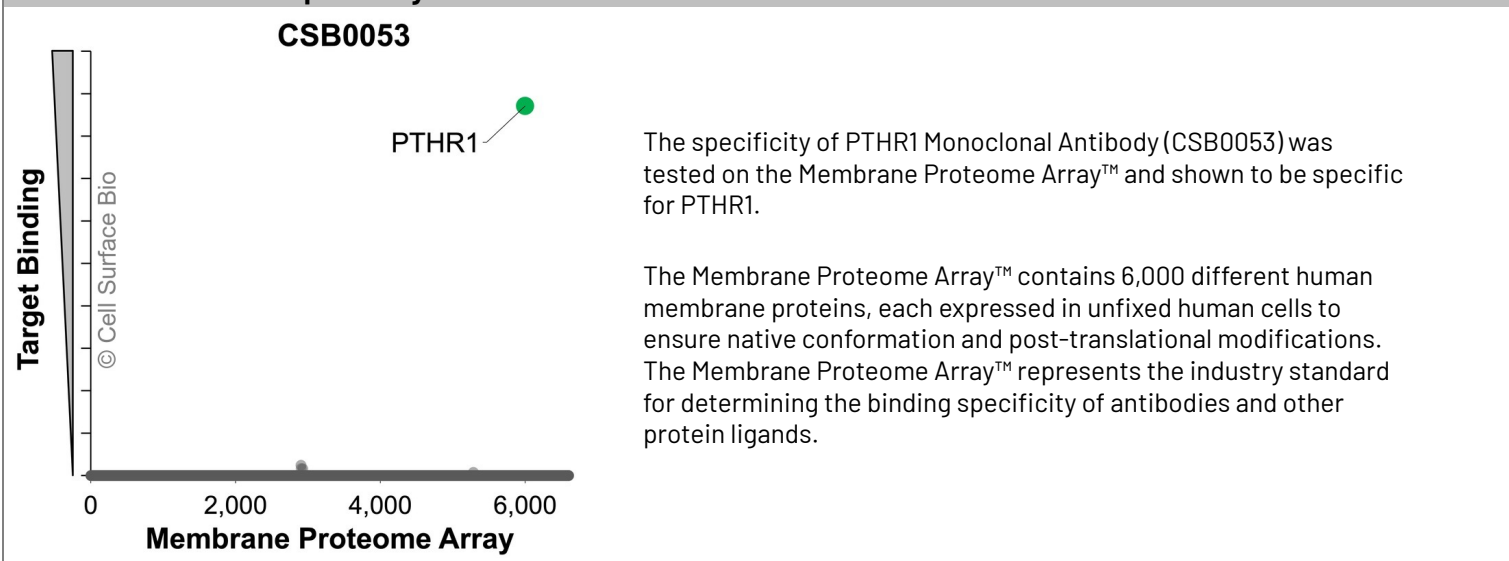
1. A peptide tag that can be biotinylated in vitro using the biotin ligase enzyme (BirA).
2. Mutated Fc-γ receptor binding site to minimize non-specific antibody binding.

PTHR1 TARGET INFORMATION

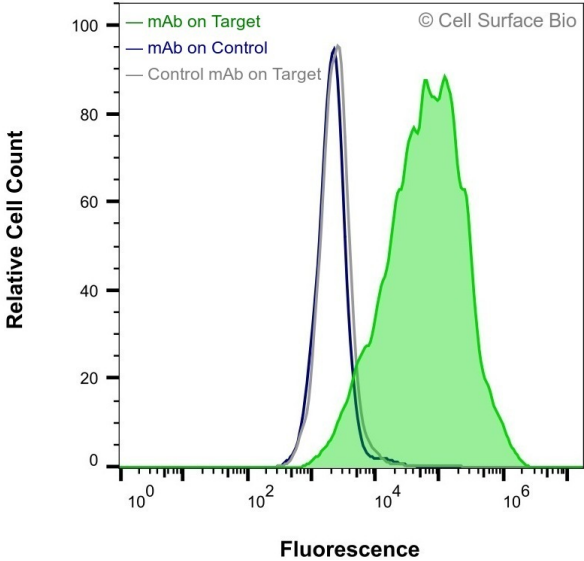
PTHR1 is a multi-pass transmembrane protein that is part of the G-protein couple receptor family 2. PTHR1 binds parathyroid hormone and parathyroid hormone-related and functions through G proteins that activate adenylyl cyclase and phosphatidylinositol-calcium second messenger system. Mutations in PTHR1 cause chondrodysplasia Blomstrand type, Jansen's metaphyseal chondrodysplasia, and enchondromatosis. (NCBI Gene: 5745, UniProtKB/Swiss-Prot: Q03431) Other names: PTH1R, PTHR, EKNS, PFE

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.

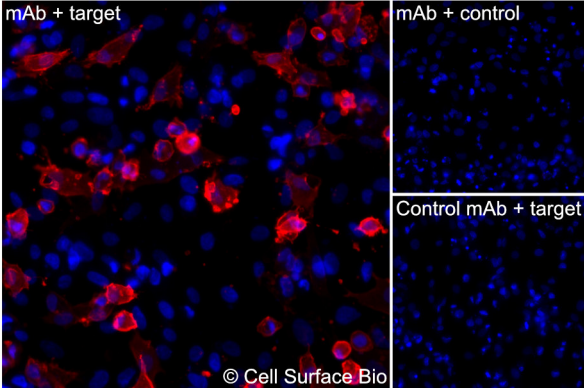
VALIDATION DATA
Membrane Proteome Specificity


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



HEK-293F cells transiently transfected with PTHR1 were stained with PTHR1 Monoclonal Antibody (CSB0053) (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 PTHR1 Monoclonal Antibody (CSB0053) (blue).

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



(Left) JS-1 cells transiently transfected PTHR1 were stained with PTHR1 Monoclonal Antibody (CSB0053) 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 PTHR1 Monoclonal Antibody. (Bottom right) Isotype control: JS-1 cells transfected with PTHR1 and stained with control MAb.

Applications

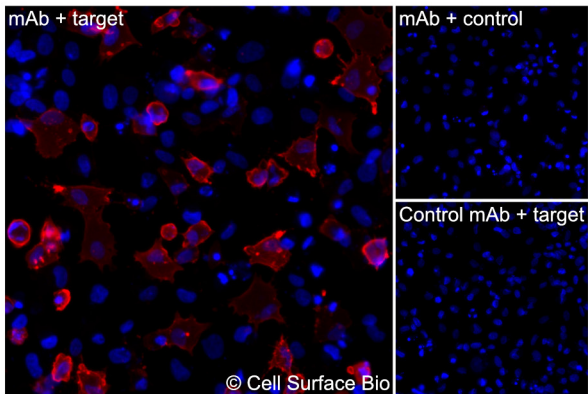
Immunofluorescence, Intracellular

Conditions

Fixed 4% paraformaldehyde,
Permeabilized 0.1% Triton X-100

Recommended concentration

1 µg/ml



(Left) JS-1 cells transiently transfected PTHR1 were permeabilized and stained with PTHR1 Monoclonal Antibody (CSB0053) 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 PTHR1 Monoclonal Antibody. (Bottom right) Isotype control: JS-1 cells transfected with {{target}} and stained with control MAb.