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Anti-IL-31 Reference Antibody (BMS-981164)

Catalog # APR11354

Product Information

Application	Functional assay, Kinetics (SPR), Kinetics (BLI), FACS, E, FTA
Primary Accession	Q6EBC2
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG4SP-opti
Calculated MW	18205

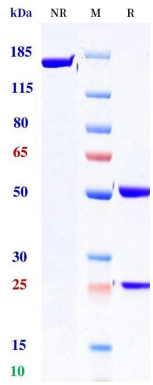
Additional Information

Target/Specificity	IL-31
Expression system	CHO

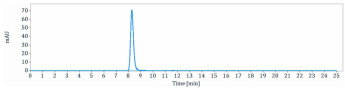
Protein Information

Name	IL31 (HGNC:19372)
Function	Functions as a cytokine that binds to IL31RA, a membrane- bound signal-transducing subunit of the IL31 receptor complex (heterodimer composed of OSMR and IL31RA) (PubMed:15184896, PubMed:15627637). Functionally, IL31 signaling via OSMR/IL31RA is particularly important in skin immunity (PubMed:15184896). Mechanistically, ligand binding to IL31RA, induces heterodimerization with OSMR, activating JAK1 and JAK2 (and to a lesser extent TYK2) associated with the intracellular domains of IL31RA and OSMR (PubMed:15627637). These kinases phosphorylate tyrosine residues on IL31RA and OSMR, creating docking sites for STAT1, STAT3, and STAT5B, which are then phosphorylated and activated (PubMed:15184896, PubMed:15627637). In addition, the IL31 receptor complex activates the MAPK pathway (MAPK3/ERK1-MAPK1/ERK2) via recruitment of the adapter protein SHC1 (PubMed:15627637). Enhances myeloid progenitor cell survival in vitro (By similarity). Induces RETNLA and serum amyloid A protein expression in macrophages (By similarity).
Cellular Location	Secreted.
Tissue Location	Detected at low levels in testis, bone marrow, skeletal muscle, kidney, colon, thymus, small intestine and trachea

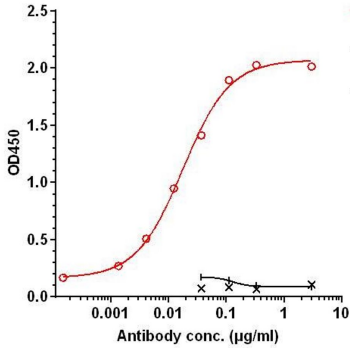
Images



Anti-IL-31 Reference Antibody (BMS-981164) on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 95%.



The purity of Anti-IL-31 Reference Antibody (BMS-981164) is 99.46%, determined by SEC-HPLC.



Immobilized huIL31-HIS at 2 μg/mL can bind BMS-981164, EC50= 0.01786 μg/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.