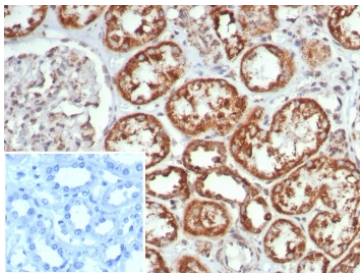
MR1 Antibody / MHC class I related protein 1 [clone MR1/7579] (V4758)

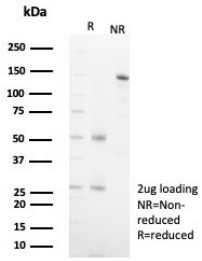
Catalog No.	Formulation	Size
V4758-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4758-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4758SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2, kappa
Clone Name	MR1/7579
Purity	Protein A/G affinity
UniProt	Q95460
Localization	Secreted, Cell membrane, Cytoplasm
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This MR1 antibody is available for research use only.



IHC staining of FFPE human kidney tissue with MR1 antibody (clone MR1/7579). Inset: PBS used in place of primary Ab (secondary Ab negative control). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free MR1 antibody (clone MR1/7579) as confirmation of integrity and purity.

Description

MR1 (major histocompatibility complex, class I-related), also known as HLALS, is a 341 amino acid single-pass membrane protein that localizes to the endoplasmic reticulum, as well as to the extracellular side of the cell membrane, and contains one Ig-like C1-type domain. Expressed ubiquitously, MR1 exists as a heterodimer with b-2-Microglobulin and plays an important role in antigen presentation, specifically in the development and expansion of mucosalassociated invariant T cells (MAITs). MAITs are located in the gut and are involved in monitoring flora levels, as well as in conveying distress signals to other areas of the body, indicating a role for MR1 in proper digestion and immune system function. MR1 exists as four alternatively spliced isoforms and is encoded by a gene which maps to human chromosome 1.

Application Notes

Optimal dilution of the MR1 antibody should be determined by the researcher.

Immunogen

A recombinant partial protein sequence (within amino acids 50-250) from the human protein was used as the immunogen for the MR1 antibody.

Storage

Aliquot the MR1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com