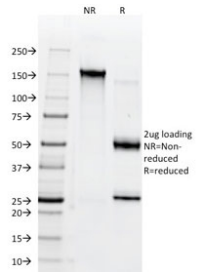
CD38 Antibody [clone AT1] (V3007)

Catalog No.	Formulation	Size
V3007-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3007-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3007SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Citations (13) **Bulk quote request**

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	AT1
Purity	Protein G affinity chromatography
UniProt	P28907
Localization	Cell surface, cytoplasm and nucleus
Applications	Flow Cytometry : 1-2ug/million cells Immunofluorescence : 1-2ug/ml
Limitations	This CD38 antibody is available for research use only.



SDS-PAGE analysis of purified, BSA-free CD38 antibody (clone AT1) as confirmation of integrity and purity.

Description

CD38 antibody clone AT1 is a monoclonal antibody that detects CD38, a type II transmembrane glycoprotein expressed

on plasma cells, activated T and B lymphocytes, natural killer cells, and myeloid precursors. CD38 functions as both a receptor and an ectoenzyme, regulating calcium signaling, adhesion, and cell activation. NSJ Bioreagents provides this antibody for hematology, oncology, and immunology research.

The antibody produces strong membranous and cytoplasmic staining in plasma cells and activated lymphocytes. In hematology, CD38 is widely used as a marker of plasma cells in multiple myeloma, plasmacytomas, and related disorders. It supports diagnosis and monitoring of disease progression and treatment response.

In oncology, CD38 antibody clone AT1 has been applied to studies of targeted therapies, including anti-CD38 monoclonal antibodies currently in clinical use. This reagent supports investigations into CD38 expression patterns, resistance mechanisms, and therapeutic outcomes.

In immunology, CD38 participates in lymphocyte activation and signal transduction. The antibody has been used to explore how CD38 regulates immune responses during infection, autoimmunity, and inflammation. Its enzymatic activity in nicotinamide adenine dinucleotide metabolism further connects it to cell signaling pathways.

In developmental biology, CD38 expression is studied in hematopoietic progenitors and differentiating immune cells, highlighting its importance in lineage specification. This antibody supports research into both immune development and pathophysiology.

Validated in tissue-based and cell-based assays, the antibody provides strong staining with minimal background. Alternate names include cyclic ADP ribose hydrolase antibody, plasma cell marker antibody, and T cell activation antigen antibody.

Application Notes

Optimal dilution of the CD38 antibody should be determined by the researcher.

Immunogen

The human T cell line CCRF-CEM was used as the immunogen for the CD38 antibody.

Storage

Store the CD38 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).