SUITE 203, 17 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-416-1478 Fax: 1-631-207-8356
Email: info@creative-biolabs.com
www.creative-biolabs.com

Product Information

MemDX™ Antibody Discovery - Human BTN3A1 / CD277 (30-254) Membrane Protein, Partial, -hIgG1 Fc -Avi tag, [Biotin]

Cat. No.: **MP1018F**
This product is for research use only and is not intended for diagnostic use.

This membrane protein is Human BTN3A1 / CD277 (30-254). It has been tested in SDS-PAGE. We provide this protein to facilitate your membrane protein antibody discovery and development.

Product Specifications

Host Species
Human

Target Protein
BTN3A1 / CD277

Protein Length
ECD

Molecular Weight
The protein has a calculated MW of 52.9 kDa. The protein migrates as 54 kDa and 55-60 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Sequence
AA Gln 30 - Gly 254 (Accession # O00481-1).

Product Description

Application
SDS-PAGE

Expression Systems
HEK293

Tag
Human IgG1 Fc tag at the C-terminus, followed by a Avi tag

Protein Format
Soluble

Form
LYOPH

Reconstitution

Please see Certificate of Analysis for specific instructions.

Endotoxin

<1.0 EU/μg by the LAL method

Conjugation

Biotin

Purity

>95% as determined by SDS-PAGE.

Buffer

Lyophilized from 0.22 μm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5. Normally trehalose is added as protectant before lyophilization.

Storage

Stored at lyophilized form at -20°C or lower. Avoid repeated freeze-thaw cycles.
The antigen can be stable for 12 months in lyophilized form after storage at -20°C to -80°C, 3 months under sterile coditions after reconstitution after storage at -80°C.

Target

Target Protein

BTN3A1 / CD277

Full Name

butyrophilin subfamily 3 member A1

Introduction

The butyrophilin (BTN) genes are a group of major histocompatibility complex (MHC)-associated genes that encode type I membrane proteins with 2 extracellular immunoglobulin (Ig) domains and an intracellular B30.2 (PRYSPRY) domain. Three subfamilies of human BTN genes are located in the MHC class I region: the single-copy BTN1A1 gene (MIM 601610) and the BTN2 (e.g., BTN2A1; MIM 613590) and BTN3 (e.g., BNT3A1) genes, which have undergone tandem duplication, resulting in 3 copies of each (summary by Smith et al., 2010 [PubMed 20208008]).

Alternative Names

BTF5; BT3.1; CD277; BTN3.1; butyrophilin subfamily 3 member A1; dJ45P21.3 (butyrophilin, subfamily 3, member A1)

Gene ID

11119

UniProt ID

O00481