

# Product Information

## **MemDX™ Antibody Discovery - Human BTN1A1 / Butyrophilin (27-242) Membrane Protein, Partial, -His tag**

Cat. No.: **MP1017F**

This product is for research use only and is not intended for diagnostic use.

This membrane protein is Human BTN1A1 / Butyrophilin (27-242). 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**

BTN1A1 / Butyrophilin

#### **Protein Length**

ECD

#### **Molecular Weight**

The protein has a calculated MW of 25.8 kDa. The protein migrates as 35-40 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

#### **Sequence**

AA Ala 27 - Arg 242 (Accession # AAH96312).

### Product Description

#### **Application**

SDS-PAGE

#### **Expression Systems**

HEK293

#### **Tag**

His tag at the C-terminus

#### **Protein Format**

Soluble

#### **Form**

LYOPH

#### **Reconstitution**

Please see Certificate of Analysis for specific instructions.

**Endotoxin**

<1.0 EU/μg by the LAL method

**Purity**

>95% as determined by SDS-PAGE.

**Buffer**

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4. 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 conditions after reconstitution after storage at -80°C.

**Target****Target Protein**

BTN1A1 / Butyrophilin

**Full Name**

butyrophilin subfamily 1 member A1

**Introduction**

Butyrophilin is the major protein associated with fat droplets in the milk. It is a member of the immunoglobulin superfamily. It may have a cell surface receptor function. The human butyrophilin gene is localized in the major histocompatibility complex (MHC) class I region of 6p and may have arisen relatively recently in evolution by the shuffling of exons between 2 ancestral gene families

**Alternative Names**

BT; BTN; BTN1; butyrophilin subfamily 1 member A1; bK14H9.2 (butyrophilin, subfamily 1, member A1)

**Gene ID**

[696](#)

**UniProt ID**

[Q13410](#)