

DESCRIPTION

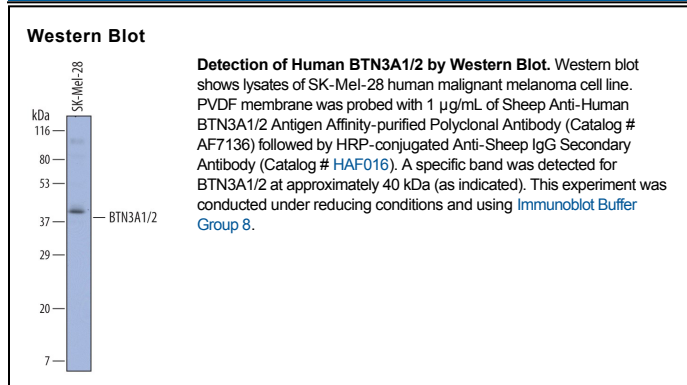
Species Reactivity	Human
Specificity	Detects human BTN3A1 and human BTN3A2 in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human BTN3A2 Gln30-Trp248 Accession # P78410
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.2 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

BTN3A2 (Butyrophilin subfamily 3 member A2; also BTF3 and BT3.2) is a 36 kDa (predicted) glycoprotein, member of the BTN family, Ig Superfamily of molecules. It is postulated to be expressed on immune-related cells, as it has a structural similarity to MHC and CD80/CD86 molecules. Mature human BTN3A2 is a 305 amino acid (aa) type I transmembrane protein. It contains a 219 aa extracellular region (aa 30-248) with one V-type Ig-like domain (aa 30-134), and a 65 aa cytoplasmic tail. The cytoplasmic region undergoes phosphorylation on two serines. There are three potential splice forms. One possesses an alternative start site 43 aa upstream of the standard site, a second contains a five aa substitution for aa 1-28, and a third shows a 24 aa substitution for aa 307-334. A rodent counterpart to BTN3A2 has not been reported. Human BTN3A1 (Butyrophilin subfamily 3 member A1; also BTF5) over aa 30-248 shares 95.4% aa identity with human NTN3A2.