

**DESCRIPTION**

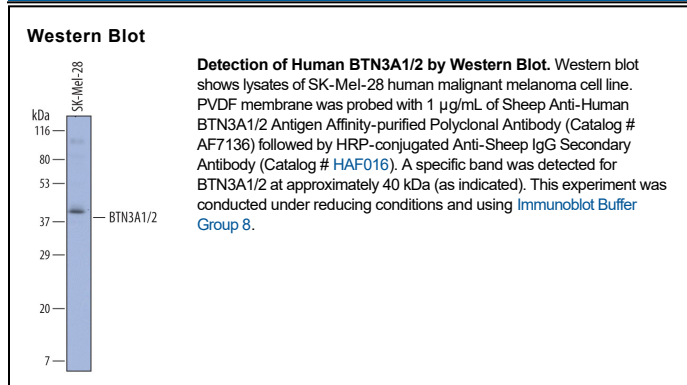
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human BTN3A1 and human BTN3A2 in direct ELISAs and Western blots.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	Chinese hamster ovary cell line CHO-derived recombinant human BTN3A2 Gln30-Trp248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

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	1 µg/mL	See Below

**DATA**



**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.2 mg/mL.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

**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.