

**DESCRIPTION**

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human DTX1 in direct ELISAs and Western blots. In direct ELISAs and Western blots, 100% cross-reactivity with recombinant human DTX4 is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>2B</sub> Clone # 730612
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	E. coli-derived recombinant human DTX1/DTX4 Met1-Phe147 Accession # Q86Y01
<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.

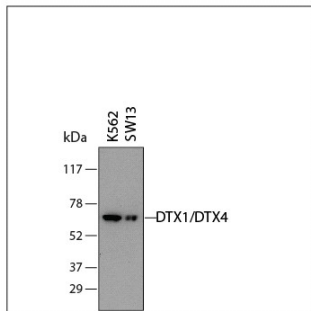
**APPLICATIONS**

**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>	2 µg/mL	See Below
<b>Immunocytochemistry</b>	8-25 µg/mL	See Below
<b>Intracellular Staining by Flow Cytometry</b>	0.25 µg/10 <sup>6</sup> cells	See Below
<b>CyTOF-ready</b>	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

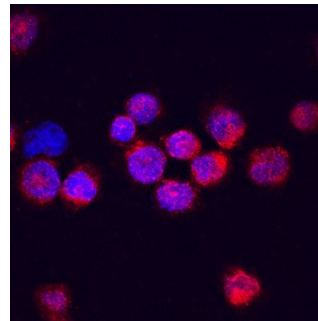
**DATA**

**Western Blot**



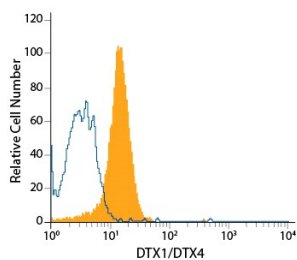
**Detection of Human DTX1/DTX4 by Western Blot.** Western blot shows lysates of K562 human chronic myelogenous leukemia cell line and SW13 human adrenal cortex adenocarcinoma cell line. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human DTX1/DTX4 Monoclonal Antibody (Catalog # MAB7157) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for DTX1/DTX4 at approximately 67 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

**Immunocytochemistry**



**DTX1/DTX4 in K562 Human Cell Line.** DTX1/DTX4 was detected in immersion fixed K562 human chronic myelogenous leukemia cell line using Mouse Anti-Human DTX1/DTX4 Monoclonal Antibody (Catalog # MAB7157) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for [Fluorescent ICC Staining of Non-adherent Cells](#).

**Intracellular Staining by Flow Cytometry**



**Detection of DTX1/DTX4 in K562 Human Cell Line by Flow Cytometry.** K562 human chronic myelogenous leukemia cell line was stained with Mouse Anti-Human DTX1/DTX4 Monoclonal Antibody (Catalog # MAB7157, filled histogram) or isotype control antibody (Catalog # MAB0041, open histogram), followed by Allophycocyanin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B). To facilitate intracellular staining, cells were fixed with paraformaldehyde and permeabilized with saponin.

**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.5 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

Deltex-1 (DTX1) is an approximately 75 kDa cytoplasmic and nuclear ubiquitin ligase that interacts with the Notch-1 intracellular domain and regulates Notch-induced gene transcription. It contains two WWE domains (aa 14-94 and aa 95-171) and one RING-type zinc finger (aa 411-472). Within aa 1-147, human Deltex-1 shares 97% aa sequence identity with mouse and rat Deltex-1.