

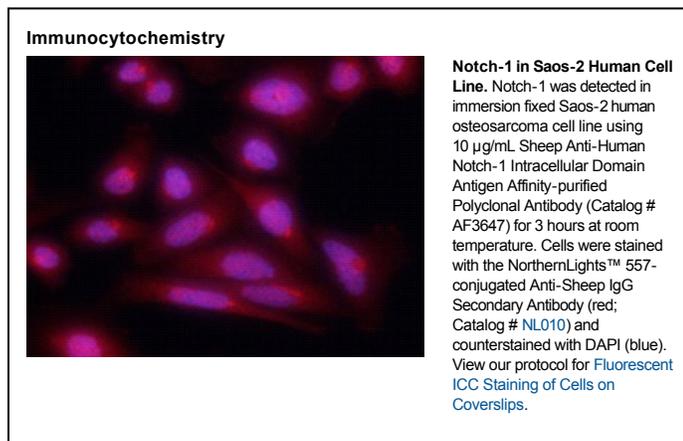
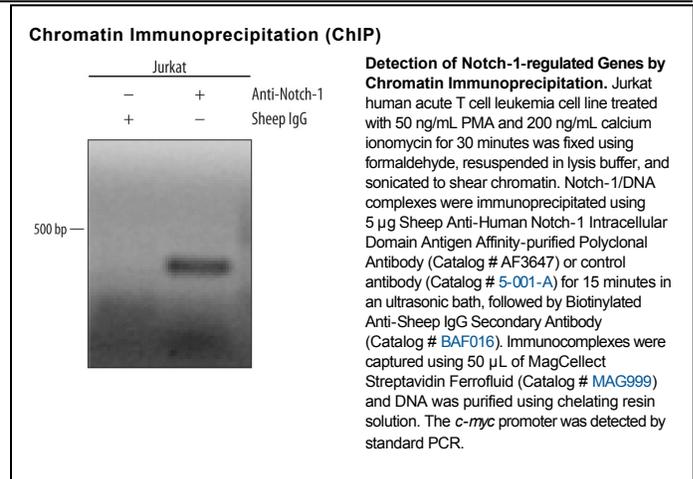
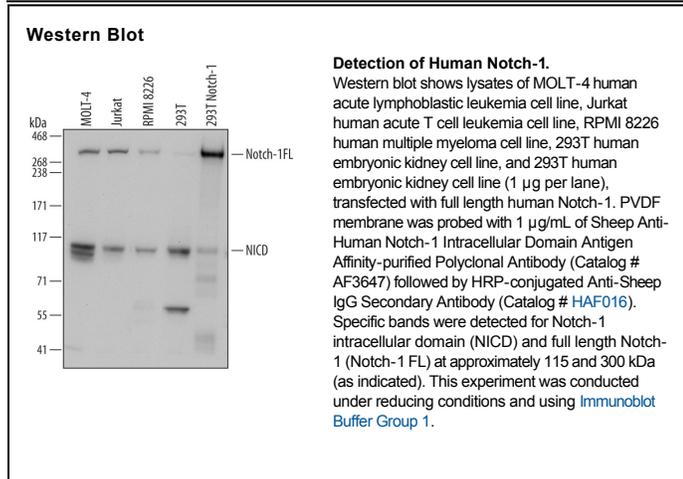
DESCRIPTION	
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects the intracellular domain (ICD) of human Notch-1 in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 1% cross-reactivity with recombinant human (rh) Notch-2 ICD, rhNotch-3 ICD, and rhNotch-4 ICD is observed.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human Notch-1 Gly2428-Lys2556 Accession # P46531
<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 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
<b>Western Blot</b>	1 µg/mL	See Below
<b>Chromatin Immunoprecipitation (ChIP)</b>	5 µg/5 x 10 <sup>6</sup> cells	See Below
<b>Flow Cytometry</b>	2.5 µg/10 <sup>6</sup> cells	U2OS human osteosarcoma cell line
<b>Immunocytochemistry</b>	5-15 µg/mL	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



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<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

Notch-1 (so named for "notches" in fly wings; also TAN-1) is a 300 kDa member of the Notch family of glycoproteins. It is associated with gene activation in both embryo and adult. Human Notch-1 is a 2538 amino acid (aa) type I transmembrane glycoprotein. It undergoes Golgi processing to generate a heterodimer composed of a 180-200 kDa disulfide-linked extracellular domain (aa 18-1664) and a 120 kDa membrane-bound segment (aa 1665-2556). Upon ligand binding, the 110 kDa segment undergoes two cleavages which generate an NICD (notch intracellular domain) (aa 1754-2556), a nuclear transcription factor. One isoform shows a deletion of aa 248-288. Over aa 2428-2556, human Notch 1 is 83% and 89% aa identical to canine and mouse Notch-1, respectively.