

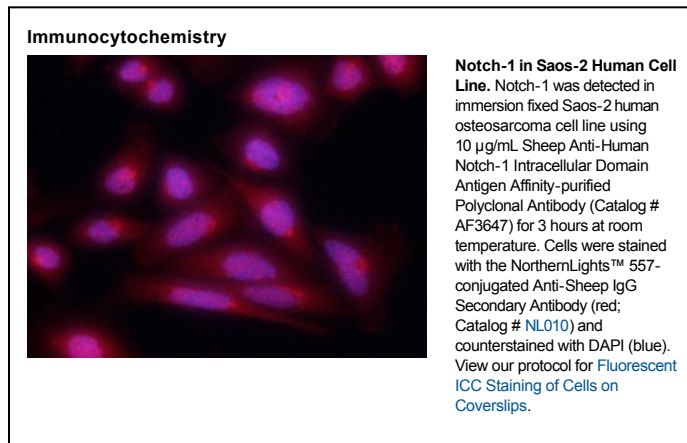
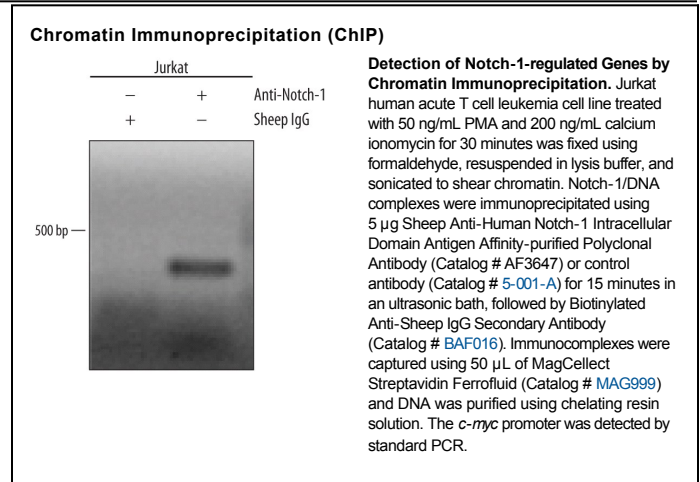
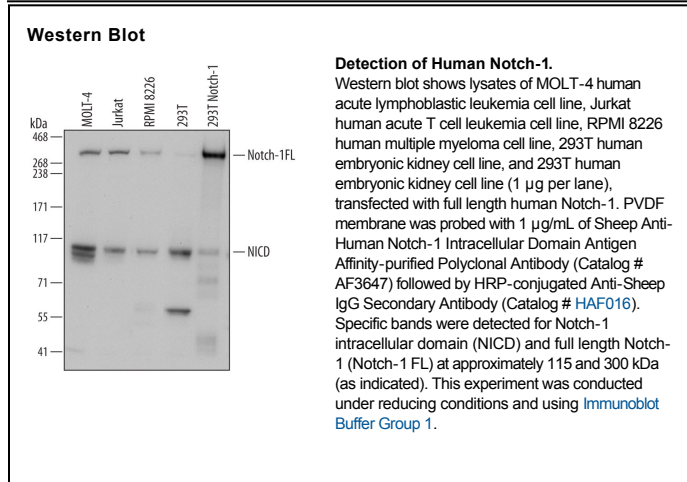
DESCRIPTION	
Species Reactivity	Human
Specificity	Detects the intracellular domain (ICD) of human Notch-1 in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 1% cross-reactivity with recombinant human (rh) Notch-2 ICD, rhNotch-3 ICD, and rhNotch-4 ICD is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human Notch-1 Gly2428-Lys2556 Accession # P46531
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
Chromatin Immunoprecipitation (ChIP)	5 µg/5 x 10 ⁶ cells	See Below
Flow Cytometry	2.5 µg/10 ⁶ cells	U2OS human osteosarcoma cell line
Immunocytochemistry	5-15 µg/mL	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
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

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.