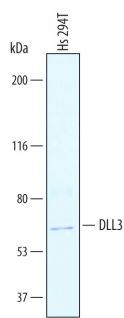
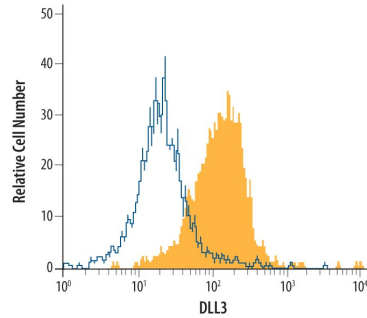


DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human DLL3 in direct ELISAs and Western blots. In direct ELISAs, approximately 25% cross-reactivity with recombinant human (rh) DLL1 is observed, and less than 8% cross-reactivity with rhDLL4 is observed.
Source	Polyclonal Goat IgG
Purification	Protein A or G purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human DLL3 Ala27-Pro488 Accession # Q9NYJ7
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

APPLICATIONS		
Please Note: Optimal dilutions should be determined by each laboratory for each application. <i>General Protocols</i> are available in the <i>Technical Information</i> section on our website.		
	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Flow Cytometry	2.5 µg/10 ⁶ cells	See Below

DATA	
<p>Western Blot</p>  <p>Detection of Human DLL3 by Western Blot. Western blot shows lysates of Hs 294T human melanoma cell line. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human DLL3 Polyclonal Antibody (Catalog # AB4315) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for DLL3 at approximately 65 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Flow Cytometry</p>  <p>Detection of DLL3 in U-118-MG Human Cell Line by Flow Cytometry. U-118-MG human glioblastoma/astrocytoma cell line was stained with Goat Anti-Human DLL3 Polyclonal Antibody (Catalog # AB4315, filled histogram) or isotype control antibody (Catalog # AB-108-C, open histogram), followed by Allophycocyanin-conjugated Anti-Goat IgG Secondary Antibody (Catalog # F0108).</p>

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.
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

DLL3 (Delta-like protein 3; also Delta3) is a 65-67 kDa member of the Delta family of proteins. It is expressed in/on select cell types in the embryo, including somitic mesoderm, cochlear hair cells and noncycling cells of the neural tube that are undergoing differentiation. DLL3 is principally found in the Golgi apparatus and endosomes where it promotes Notch family receptor degradation. Mature human DLL3 is a 592 amino acid (aa) type I transmembrane protein. It possesses a 466 aa extracellular domain (aa 27-492) that contains a Notch-binding DSL domain (aa 176-215) followed by six EGF-like repeats (aa 216-465). There is one isoform variant that contains an Ala substitution for aa 588-618. Over aa 27-488, human DLL3 shares 84% aa identity with mouse DLL3.