

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Nectin-4 in direct ELISAs and Western blots. In direct ELISAs, approximately 75% cross-reactivity with recombinant mouse Nectin-4 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Nectin-4 Gly27-Val351 Accession # Q96NY8
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 either lyophilized or as a 0.2 µm filtered solution in PBS.

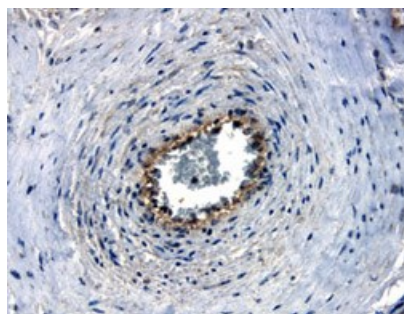
APPLICATIONS

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.

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Human Nectin-4 (Catalog # 2659-N4)
Flow Cytometry	0.25 µg/10 ⁶ cells	MCF-7 human breast cancer cell line
Immunohistochemistry	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.	

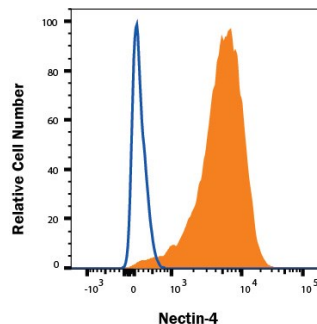
DATA

Immunohistochemistry



Nectin-4 in Human Placenta.
Nectin-4 was detected in immersion fixed paraffin-embedded sections of human placenta using 10 µg/mL Goat Anti-Human Nectin-4 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2659) overnight at 4 °C. Before incubation with the primary antibody tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # [CTS013](#)). Tissue was stained with the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # [CTS008](#)) and counterstained with hematoxylin (blue). View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

Flow Cytometry



Detection of Nectin-4 in MCF-7 Human Cell Line by Flow Cytometry. MCF-7 human breast adenocarcinoma cell line was stained with Goat Anti-Human Nectin-4 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2659, filled histogram) or control antibody (Catalog # [AB-108-C](#), open histogram), followed by PE-conjugated Anti-Goat IgG Secondary Antibody (Catalog # [F0107](#)).

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

Nectin-4 is a type I transmembrane glycoprotein belonging to the Nectin family of Ig superfamily proteins. It is both a homophilic and heterophilic (with Nectin-1) cell adhesion molecule that is expressed in the embryo and in breast carcinoma. A soluble form of Nectin-4 is generated from the membrane protein via the action of TACE/ADAM-17. The extracellular domain of human Nectin-4 shares 90% and 92% amino acid sequence homology with the corresponding regions of mouse and rat Nectin-4, respectively.