

DESCRIPTION

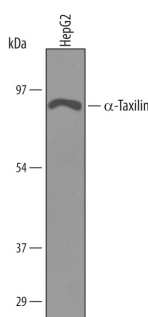
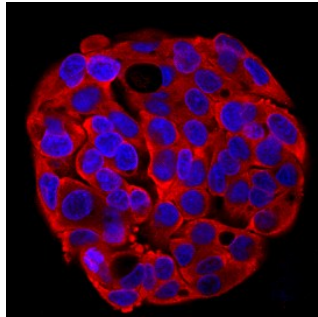
Species Reactivity	Human
Specificity	Detects human α -Taxilin in direct ELISAs and Western blots. In direct ELISAs, less than 5% cross-reactivity with recombinant human (rh) γ -Taxilin and rh β -Taxilin is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human α -Taxilin Met1-Lys162 Accession # P40222
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μ m 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 μ g/mL	See Below
Immunocytochemistry	5-15 μ g/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Human α-Taxilin by Western Blot. Western blot shows lysates of HepG2 human hepatocellular carcinoma cell line. PVDF membrane was probed with 1 μg/mL of Sheep Anti-Human α-Taxilin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5575) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for α-Taxilin at approximately 75 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.</p>	<p>Immunocytochemistry</p>  <p>α-Taxilin in HepG2 Human Cell Line. α-Taxilin was detected in immersion fixed HepG2 human hepatocellular carcinoma cell line using Sheep Anti-Human α-Taxilin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5575) at 10 μg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Sheep IgG Secondary Antibody (red; Catalog # NL010) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.</p>
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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

α -Taxilin (TXLN- α ; also p75 [in rat] and IL-14 α) is the founding member of the taxilin family of proteins. Although its predicted MW is 62 kDa, it runs anomalously at 74-76 kDa in SDS-PAGE. α -Taxilin is ubiquitously expressed and participates in intracellular vesicle trafficking. In particular, α -Taxilin interacts with syntaxin family members that localize to the plasma membrane, providing for SNARE complex formation. α -Taxilin also regulates the placement of growing protein chains. Human α -Taxilin is 546 amino acids (aa) in length. Its defining characteristic is a large coiled-coil region between aa 186-491. When an alternate start site at Met176 is used, a secreted cytokine is generated termed IL-14 α . Over aa 1-162, human α -Taxilin shares 81% aa identity with mouse α -Taxilin.