

DESCRIPTION

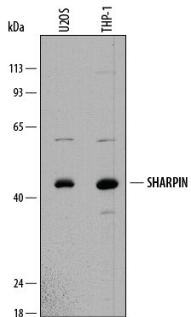
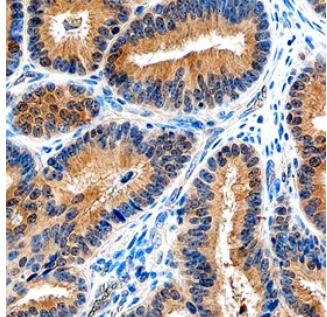
Species Reactivity	Human
Specificity	Detects human SHARPIN in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human SHARPIN Ala27-Ala182 Accession # Q9H0F6
Formulation	Lyophilized from a 0.2 µm filtered 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
Immunohistochemistry	5-15 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Human SHARPIN by Western Blot. Western blot shows lysates of U2OS human osteosarcoma cell line and THP-1 human acute monocytic leukemia cell line. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Human SHARPIN Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8100) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for SHARPIN at approximately 43 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Immunohistochemistry</p>  <p>SHARPIN in Human Ovary. SHARPIN was detected in immersion fixed paraffin-embedded sections of human ovary using Sheep Anti-Human SHARPIN Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8100) at 10 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Sheep HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS019) and counter-stained with hematoxylin (blue). Specific staining was localized to cytoplasm. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.</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. *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

Sharpin (Shank-associated RH domain-interacting protein), also called SIPL1 (Shank interacting protein-like 1) is a 40-45kDa protein. It is an essential component of the cytosolic LUBAC ubiquitin conjugation complex. It conjugates linear ubiquitin chains to IKKγ and activates NFκB, thus regulating immune and inflammatory responses. Sharpin is widely expressed, with upregulated expression in multiple tumor types. Human Sharpin is a 387 amino acid (aa) protein containing self association, SHANK1 interaction, and zinc finger domains. A 326 aa isoform diverges after aa 308 and lacks the zinc finger domain. Within aa 27-182, human Sharpin shares 67 and 66% aa sequence identity with mouse and rat Sharpin, respectively.