

DESCRIPTION

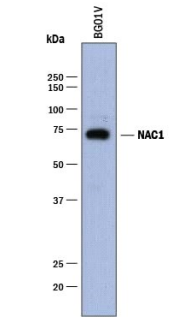
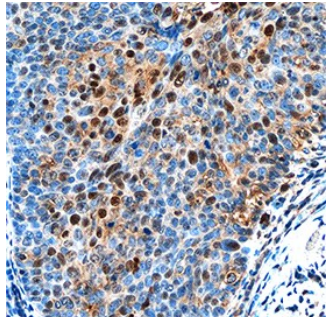
Species Reactivity	Human
Specificity	Detects human NAC1 in direct ELISAs and Western Blots. In direct ELISAs, approximately 100% cross-reactivity with recombinant mouse NAC1 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human NAC1 Val471-Gln527 Accession # Q96RE7
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 NAC1 by Western Blot. Western blot shows lysates of BG01V human embryonic stem cells. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Human NAC1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8375) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for NAC1 at approximately 72 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Immunohistochemistry</p>  <p>NAC1 in Human Cervical Cancer Tissue. NAC1 was detected in immersion fixed paraffin-embedded sections of human cervical cancer tissue using Sheep Anti-Human NAC1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8375) at 1 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Sheep HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS019) and counterstained with hematoxylin (blue). Specific staining was localized to nuclei in cancer cells. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.</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

NAC1 (nucleus accumbens-associated protein 1; also NACC1) is a 527 aa BTB/POZ domain containing protein. Human NAC1 shares 86% and 85% aa identity with mouse and rat NAC1, respectively. It has been shown to have a role in transcriptional regulation in both pluripotent stem cells and in the brain. Additionally, NAC1 expression is upregulated in many cancers and this expression has been suggested to correlate with increased aggressiveness in some cancers.