

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human AMSH/STAMPB in direct ELISAs and Western blots.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human AMSH/STAMPB Ser2-Arg424 Accession # O95630
<b>Formulation</b>	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.

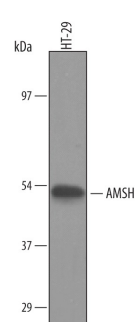
## APPLICATIONS

**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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	1 µg/mL	See Below
<b>Immunohistochemistry</b>	3-15 µg/mL	See Below

## DATA

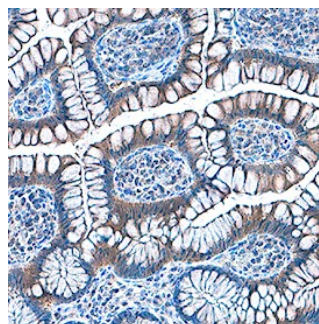
### Western Blot



### Detection of Human AMSH/STAMPB by Western Blot.

Western blot shows lysates of HT-29 human colon adenocarcinoma cell line. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human AMSH/STAMPB Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5650) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for AMSH/STAMPB at approximately 50 kDa (as indicated). This experiment was conducted under reducing conditions and using [Immunoblot Buffer Group 8](#).

### Immunohistochemistry



### AMSH/STAMPB in Human Colon.

AMSH/STAMPB was detected in immersion fixed paraffin-embedded sections of human colon using Goat Anti-Human AMSH/STAMPB Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5650) at 3 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm of epithelial cells. View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

AMSH (Associated molecule with SH3 domain of STAM) is a 50 kDa member of the peptidase M67C class of enzymes. It is widely expressed and serves two functions. First, it promotes receptor recycling by counteracting the effects of ubiquitinating enzymes, and second, it participates in cytokine signal transduction by forming a complex with Jak2/3, STAM and the common β- and γ-chains. Human AMSH is 424 amino acids (aa) in length. It contains an NLS (aa 113-127), two SH3-binding motifs (aa 195-198 and 227-231), and one MPN domain (aa 252-361). There are five phosphorylation sites at Ser2, 48, 243, 245 and 247. AMSH has one potential splice variant that shows a 17 aa substitution for aa 1-68. Full-length human AMSH is 83% aa identical to mouse AMSH.