

DESCRIPTION

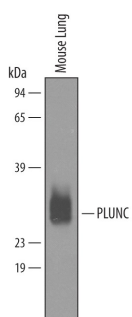
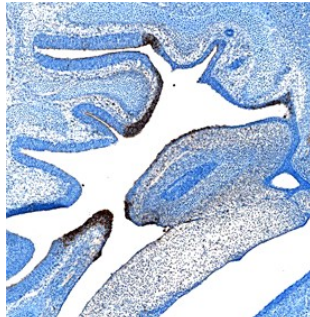
Species Reactivity	Mouse
Specificity	Detects mouse PLUNC in direct ELISAs and Western blots. In these formats, less than 10% cross-reactivity with recombinant human PLUNC is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse PLUNC Ala59-Val278 Accession # NP_035256
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	1 µg/mL	See Below
Immunohistochemistry	5-15 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Mouse PLUNC by Western Blot. Western blot shows lysates of mouse lung tissue. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Mouse PLUNC Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4274) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for PLUNC at approximately 30kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.</p>	<p>Immunohistochemistry</p>  <p>PLUNC in Mouse Embryo. PLUNC was detected in immersion fixed frozen sections of mouse embryo nose (13 d.p.c.) using Sheep Anti-Mouse PLUNC Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4274) at 1.7 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 olfactory epithelium. View our protocol for Chromogenic IHC Staining of Frozen 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

PLUNC (Palate, lung, and nasal epithelium clone; also SPLUNC1) is a 25-30 kDa member of the PLUNC family, BPI/PLUNC/LBP superfamily of proteins. PLUNC is a secreted glycoprotein that is expressed by both adult and embryonic respiratory epithelium in the nose, trachea and bronchi/primary bronchioles. It serves as a natural antibacterial polypeptide in the respiratory system. Mature mouse PLUNC is 259 amino acids (aa) in length. It contains four, six-amino acid repeats (GxxLPL) over aa 23-52. There is reportedly one splice variant that shows a 28 aa substitution for the C-terminal 45 amino acids (aa 234-278). Over aa 59-278, mouse PLUNC shares 91% and 75% aa identity with rat and human PLUNC, respectively.