

# Mouse/Rat HIN-1/SCGB3A1 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF2954

DESCRIPTION			
Species Reactivity	Mouse/Rat		
Specificity	Detects mouse HIN-1/SCGB3A1 in direct ELISAs and Western blots. In direct ELISAs, approximately 5% cross-reactivity with recombin human HIN-1 is observed.		
Source	Polyclonal Goat IgG		
Purification	Antigen Affinity-purified		
Immunogen	E. coli-derived recombinant mouse HIN-1/SCGB3A1 Phe22-Gly104 Accession # Q920D7		
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.

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	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below

# Detection of Rat HIN-1 by Western Blot. Western blot shows lysates of rat lung tissue. PVDF membrane was probed with 1 µg/mL of Goat Anti-Mouse/Rat HIN-1/SCGB3A1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2954) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for HIN-1 at approximately 10 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

### 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.

- 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

HIN-1, also known as PnSP-2, LuLeu-2, UGRP-2 and SCGB3A1, is an 10 kDa member of the secretoglobulin family of molecules. It is synthesized as a 104 amino acid (aa) precursor that contains a 21 aa signal sequence and an 83 aa mature region. There are no potential N-linked glycosylation sites. Based on other members of the family, HIN-1 is likely to exist as a disulfide-linked homodimer. The molecule is found in mammary and upper airway epithelium. No receptor for HIN-1 has been identified. Mature mouse HIN-1 shares 60% aa sequence identity with mature human HIN-1.

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