

DESCRIPTION

Species Reactivity	Human
Specificity	Detects endogenous human Girdin in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human Girdin Asn1510-Leu1824 Accession # Q3V6T2
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.

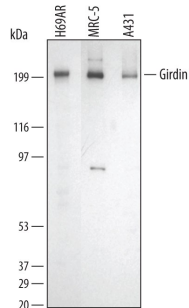
APPLICATIONS

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
Simple Western	10 µg/mL	A431 human epithelial carcinoma cell line

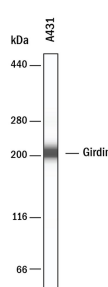
DATA

Western Blot



Detection of Human Girdin by Western Blot. Western blot shows lysates of H69AR human small cell lung cancer cell line, MRC-5 human embryonic lung fibroblast cell line, and A431 human epithelial carcinoma cell line. PVDF membrane was probed with 1 µg/mL of Human Girdin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5345) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for Girdin at approximately 200 to 220 kDa (as indicated). This experiment was conducted using Immunoblot Buffer Group 1.

Simple Western



Detection of Human Girdin by Simple Western™. Simple Western lane view shows lysates of A431 human epithelial carcinoma cell line, loaded at 0.2 mg/mL. A specific band was detected for Girdin at approximately 206 kDa (as indicated) using 10 µg/mL of Sheep Anti-Human Girdin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5345) followed by 1:50 dilution of HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). This experiment was conducted under reducing conditions and using the 66-440kDa separation system.



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

Girdin (GIRDers of actIN filaments; also APE and GIV) is a member of the CCDC88 family of molecules. It is a cytosolic protein, ubiquitously expressed, and plays a key role in the motility of breast cancer cells. Human Girdin is 1871 amino acids (aa) in length. It contains two coiled-coil regions that mediate homodimerization (aa 196-425 and 458-1358), and one phosphoinositide-binding domain (aa 1390-1408). Normally, Girdin is membrane-associated via an interaction with phosphoinositides. Upon phosphorylation at Ser1417 by Akt, it relocates to lamellipodia where it crosslinks actin filaments. Multiple isoforms of Girdin have been detected.