biotechne[®] RDSYSTEMS

Human/Mouse/Rat Talin1 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF5456

DESCRIPTION	
Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse and rat Talin1 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli-</i> derived recombinant human Talin1 Ala975-Ser1181 Accession # Q9Y490
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		

 Detection of Human/Mouse/Rat Talin1 by Western Blot. Western blot shows lysates of Daudi human Burkit's lymphoma cell line, Jurkat human acute T cell leukemia cell line, L1.2 mouse pro-B cell line, and NRK rat normal kidney cell line. PVDF membrane was probed with 1 µg/mL of Human/Mouse/Rat Talin1 Antigen Affinity-purified Polyclonal Antibody (Catalog # HAF109). A specific band was detected for Talin1 at approximately 250-270 KDa (as indicated). This 	kDa 😨 🛱 198 — Talin1 116 — 97 — 54 —	Detection of Human and Mouse Talin1 by Western Blot. Western Blot shows lysates of HeLa human cervical epithelial carcinoma cell line and BaF3 mouse pro-B cell line. PVDF membrane was probed with 1 µg/ml of Goat Anti- Human/Mouse/Rat Talin1 Antigen Affinity-purified Polycolonal Antibody (Catalog # AF5456) followed by HRP-conjugated Anti- Goat IgG Secondary Antibody (Catalog # HAF-109). A specific band was detected for Talin1 at approximately 250-270 kDa (as indicated). This experiment was conducted under reducing conditions and using Western Blot
experiment was conducted under reducing conditions and using Immunoblot Buffer Group 2.		Buffer Group 2.

Shipping	Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store immediately at the temperature recommended below.
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

Talin1 (*talus*; Latin for ankle, the shape of a focal adhesion plaque complex) is a 250-270 kDa member of the I/LWEQ module superfamily. When activated, it serves as a cytoplasmic, homodimeric link between integrins and vinculin, an actin organizer. Human Talin1 is 2541 amino acids (aa) in length and contains one globular N-terminal FERM domain that binds integrin cytodomains (aa 86-403), and a rod shaped C-terminus (aa 482-2541) that binds vinculin, and contains an I/LWEQ dimerization domain (aa 2293-2533). Over amino acids 975-1181, human Talin1 shares 98% aa identity with mouse Talin1.

Rev. 5/21/2025 Page 1 of 1

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