

Human/Mouse SAM68 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF5509

DESCRIPTION		
Species Reactivity	Human/Mouse	
Specificity	Detects human and mouse SAM68 in Western blots.	
Source	Polyclonal Sheep IgG	
Purification	Antigen Affinity-purified	
Immunogen	E. coli-derived recombinant human and mouse SAM68 Met108-Pro280 Accession # Q07666	
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 as a 0.2 µm filtered solution in PBS.	

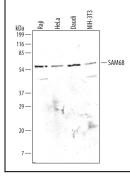
APPLICATIONS

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

DATA





Detection of Human and Mouse SAM68 by Western Blot.

Western blot shows nuclear extracts of Raji human Burkitt's lymphoma cell line, Daudi human Burkitt's lymphoma cell line, HeLa human cervical epithelial carcinoma cell line, HeLa human cervical epithelial carcinoma cell line, and NIH-3T3 mouse embryonic fibroblast cell line. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Humar/Mouse SAM68 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5509) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for SAM68 at approximately 60-68 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

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 $^{\circ}$ C		
	"Small pack size (-SP) is snipped 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

SAM68 (Src associated in mitosis 68 kDa; also KH domain-containing, RNA-binding, signal transduction-associated protein 1) is a 62-68 kDa member of the KHDRBS family of proteins. It is associated with multiple receptor systems (i.e.- TCR and leptin), as an adaptor protein by its SH2 and SH3 domains, and binds to UAAA motifs in mRNA. Human SAM68 is 443 amino acids (aa) in length. It contains one SGQ region (aa 96-157) and one KH domain (aa 171-197). Post-translational modification of SAM68 alters its partnership with other molecules. For example, methylation on ArgGly motifs reduce RNA binding, acetylation on multiple Lys residues increases RNA binding, and phosphorylation on Tyr promotes SH3 domain interaction.

