

Datasheet: AHP1003

Description:	GOAT ANTI HUMAN LNK (N-TERMINAL)
Specificity:	LNK (N-TERMINAL)
Other names:	LYMPHOCYTE ADAPTOR PROTEIN
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			■	
Immunohistology - Frozen			■	
Immunohistology - Paraffin			■	
ELISA			■	
Immunoprecipitation			■	
Western Blotting	■			0.3 - 1.0ug/ml

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Antisera to LNK (NT) were raised by repeated immunisation of Goat with highly purified antigen. Purified IgG prepared by affinity chromatography.
Buffer Solution	TRIS buffered saline
Preservative	0.02% Sodium Azide
Stabilisers	0.5% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.5mg/ml
Immunogen	Peptide sequence NGPALQPSSPC from LNK amino-terminus.
External Database Links	UniProt: Q9UQQ2 Related reagents

Entrez Gene:[10019](#) SH2B3 [Related reagents](#)**Synonyms**

LNK

Specificity

Goat anti Human LNK antibody recognizes human SH2B adapter protein 3, also known as Lymphocyte-specific adapter protein Lnk or Lymphocyte adapter protein. LNK is a 575 amino acid SH2B adapter protein containing a single PH domain and a single SH2 domain. Goat anti Human LNK antibody binds to an epitope within the N-terminal region of LNK, which regulates cytokine receptor-mediated and growth factor pathways, and plays an essential role in B cell lymphopoiesis.

LNK mRNA is preferentially expressed in lymph node and spleen lymphocytes and the expression of LNK in vascular endothelial cells (ECs), increases in response to TNF α . LNK acts as a negative regulator of the pro-inflammatory molecules VCAM-1 and E-selectin induced by TNF α , modulation of P13-kinase and MAPK ERK1/2 activity. LNK is also involved in the negative regulation of Thrombopoietin-mediated cell proliferation and endomitosis in hematopoietic cell lines.

Western Blotting

Goat anti Human LNK antibody, directed against the N-teend of the molecule, detects a band of approximately 70 kDa in human MOLT4 cell lysates. (Predicted Mwt. 63.2 kDa). A band of 68 kDa was resolved in HUVECs ([Fitau et al. 2006](#)).

Suitable antibodies for loading controls include :

Human anti Human actin β , [HCA147](#) or Rat anti tubulin α , [MCA77G](#).

References

1. Fitau, J. *et al.* (2006) The adaptor molecule Lnk negatively regulates tumor necrosis factor- α -dependent VCAM-1 expression in endothelial cells through inhibition of the ERK1 and -2 pathways. [J Biol Chem. 281 \(29\): 20148-59.](#)
2. Fitau, J. *et al.* (2005) The adaptor protein Lnk modulates endothelial cell activation. [Nephrol Ther. 1: 228-33.](#)
3. Gery, S. *et al.* (2007) Adaptor protein Lnk negatively regulates the mutant MPL, MPLW515L associated with myeloproliferative disorders. [Blood. 110: 3360-4.](#)
4. Gery, S. *et al.* (2009) Lnk inhibits myeloproliferative disorder-associated JAK2 mutant, JAK2V617F. [J Leukoc Biol. 85: 957-65.](#)
5. Wan, M. *et al.* (2006) TNF- α Induces Lnk Expression Through PI3K-Dependent Signaling Pathway in Human Umbilical Vein Endothelial Cells [J Surg Res. 136: 53-7.](#)
6. Wan, M. *et al.* (2007) Eicosapentaenoic acid inhibits TNF- α -induced Lnk expression in human umbilical vein endothelial cells: involvement of the PI3K/Akt pathway. [J Nutr Biochem. 18: 17-22.](#)
7. Chatelais, M. *et al.* (2011) Gene transfer of the adaptor Lnk (SH2B3) prevents porcine endothelial cell activation and apoptosis: implication for xenograft's cytoprotection. [Xenotransplantation. 18: 108-20.](#)
8. Devallière, J. *et al.* (2012) LNK (SH2B3) is a key regulator of integrin signaling in endothelial cells and targets α -parvin to control cell adhesion and migration. [FASEB J. 26: 2592-606.](#)

Further Reading

1. Tong, W. & Lodish, H.F. (2004) Lnk inhibits Tpo-mpl signaling and Tpo-mediated megakaryocytopoiesis. [J Exp Med. 200 \(5\): 569-80.](#)

Storage

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before

use.

Shelf Life	18 months from date of despatch.
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Health And Safety Information	Material Safety Datasheet documentation #10058 available at: 10058: https://www.bio-rad-antibodies.com/uploads/MSDS/10058.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Rabbit Anti Goat IgG (Fc) (STAR122...) [FITC](#), [HRP](#)

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