



Rabbit Anti-HIP55 antibody

SL20165R

Product Name:	HIP55
Chinese Name:	宫颈黏液蛋白相关蛋白抗体
Alias:	ABP1; Actin-binding protein 1; Cervical mucin associated protein; Cervical mucin-associated protein; Cervical SH3P7; CMAP; Dbnl; DBNL_HUMAN; Drebrin F; drebrin like; Drebrin like protein; Drebrin-F; Drebrin-like protein; HIP 55; HIP-55; HPK1 interacting protein of 55 kDa; HPK1-interacting protein of 55 kDa; SH3 domain containing protein 7; SH3 domain-containing protein 7; SH3P7; Src Homology 3 Domain Containing Protein; src homology 3 domain containing protein HIP.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500(Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	55kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human HIP55:201-300/430
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	Preservative: 15mM Sodium Azide, Constituents: 1% BSA, 0.01M PBS, pH 7.4
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Drebrins (developmentally regulated brain proteins) are cytoplasmic proteins that bind F-actin in the brain and are involved in cell migration, extension of neuronal processes

and plasticity of dendrites. HIP-55 (HPK1-interacting protein of 55 kDa), also known as ABP1, SH3P7 or DBNL (drebrin-like), is a 430 amino acid cytoplasmic protein that belongs to the ABP1 family. HIP-55 binds to F-actin but is not involved in actin polymerization, capping or bundling. In addition to containing an ADF-H domain, HIP-55 also consists of a SH3 domain, which mediates interaction with SHANK2, SHANK3 and PRAM-1. HIP-55 acts as an actin-binding adapter protein and as a common effector of antigen receptor-signaling pathways in leukocytes. As a key component of the immunological synapse, HIP-55 regulates T-cell activation by bridging TCRs and the actin cytoskeleton to gene activation and endocytic processes. HIP-55 is degraded by caspases during apoptosis.

Function:

Actin-binding adapter protein. May act as a common effector of antigen receptor-signaling pathways in leukocytes. Its association with dynamin suggests that it may also connect the actin cytoskeleton to endocytic function. Acts as a key component of the immunological synapse that regulates T-cell activation by bridging TCRs and the actin cytoskeleton to gene activation and endocytic processes. Binds to F-actin but is not involved in actin polymerization, capping or bundling. Does not bind G-actin.

Subunit:

Interacts with SHANK2 and SHANK3. Interacts with FGD1, dynamin, MAP4K1 and PRAM1. Interacts with ANKRD54.

Subcellular Location:

Cytoplasm, cytoskeleton. Cell projection, lamellipodium. Note=Cortical cytoskeleton. Associates with lamellipodial actin.

Post-translational modifications:

Degraded by caspases during apoptosis.

Similarity:

Belongs to the ABP1 family.
Contains 1 ADF-H domain.
Contains 1 SH3 domain.

SWISS:

Q9UJU6

Gene ID:

28988

Database links:

[Entrez Gene: 28988](#) Human

[Entrez Gene: 13169](#) Mouse

[Entrez Gene: 83527](#) Rat

[Omin: 610106](#) Human

[SwissProt: Q9UJU6](#) Human

[SwissProt: Q62418](#) Mouse

[SwissProt: Q9JHL4](#) Rat

[Unigene: 436500](#) Human

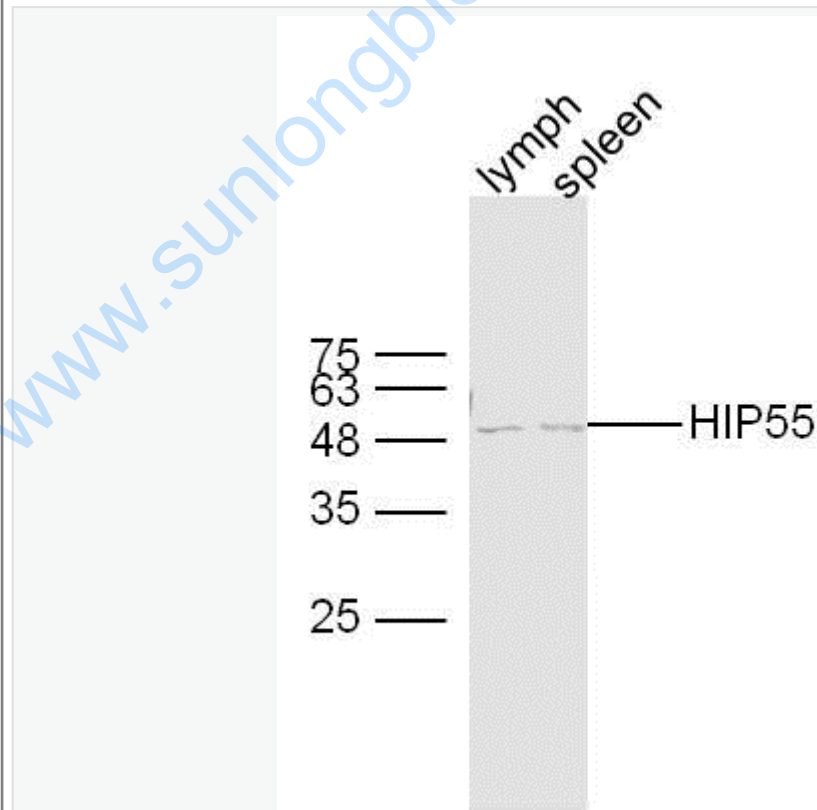
[Unigene: 256925](#) Mouse

[Unigene: 4115](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Protein:

lymph node(mouse) lyates at 40ug;

spleen(mouse) lyates at 40ug;

Primary: Rabbit Anti-HIP55 (SL20165R) at 1:300;

Secondary: 800CW Conjugated Goat (polyclonal) Anti-Rabbit IgG(H+L) at 1:
10000;

Predicted band size:55 kD

Observed band size:55 kD

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