9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

12-4311: Phospho-HS1 (Tyr397) (Clone: F12) rabbit mAb

Clonality :	Monoclonal
Clone Name :	HS1Y397-F12
Application :	FACS,WB
Reactivity :	Human, Mouse
Conjugate :	Unconjugated
Format :	Purified
Alternative Name :	Hematopoietic lineage cell-specific protein, Hematopoietic cell-specific LYN substrate 1, LckBP1, p75, HCLS1
Isotype :	Rabbit IgG1k
Immunogen Information :	A synthetic phospho-peptide corresponding to residues surrounding Tyr397 of human phospho HS1

Description

HS1 is expressed in lymphoid and hematopoietic cells, and is heavily post-translationally modified. HS1 deficient mouse models have demonstrated the protein's role in receptor-mediated apoptosis and proliferation. HS1 is phosphorylated at Tyr378 and Tyr397 by the kinase Syk, providing a high-affinity binding site for SH2 domains from the Src family. Following this interaction, HS1 is then phosphorylated at Tyr222 by c-Fgr, Lyn, and Fyn kinases. HS1 plays an important role in T cell signaling, where HS1 phosphorylation recruits and activates Vav1 at the immune synapse. As a homolog of the actin binding protein cortactin, HS1 has been shown to mediate neutrophil chemotaxis through phosphorylation of tyrosines 222, 378, and 397.

Product Info

Amount :	20 µl / 200 µl
Content :	1X PBS, 0.02% NaN3, 50% Glycerol, 0.1% BSA
Storage condition :	Store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

1Ã‚Âµg/mL - 0.001Ã‚Âµg/mL. It is recommended that the reagent be titrated for optimal performance for each application. See product image legends for additional information.(0.5mg/ml, more than 200 western blots)

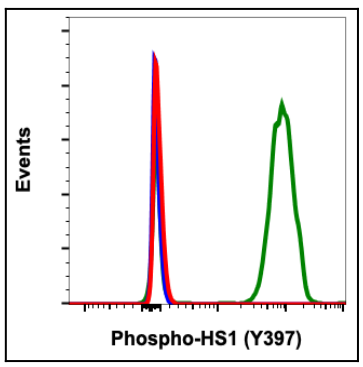

Fig-1: Flow cytometric analysis of Ramos cells secondary antibody only negative control (blue) or untreated (red) or treated with pervanadate (green) using Phospho-HS1 (Tyr397) antibody HS1Y397-F12 at 0.01µg/mL.

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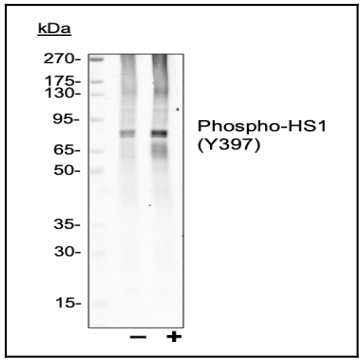
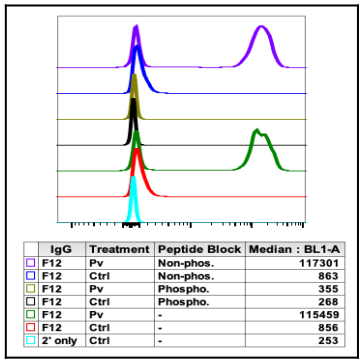


Fig 2 : Western blot analysis of Ramos cell extract, untreated or treated with 300 nM Thapsigargin for 30 min using HS1 (Tyr397) antibody HS1Y397-F12 at 0.01 µg/mL.



IgG	Treatment	Peptide Block	Median : BL1-A
F12	Pv	Non-phos.	117301
F12	Ctrl	Non-phos.	863
F12	Pv	Phospho.	355
F12	Ctrl	Phospho.	268
F12	Pv	-	115459
F12	Ctrl	-	856
2° only	Ctrl	-	253

Fig-3: Peptide blocking flow cytometric analysis of Ramos cells secondary antibody only negative control (light blue) or untreated (red) or treated with pervandadate (green) or untreated and blocked with phospho-peptide (black) or treated and blocked with phospho peptide (gold) or untreated and blocked with non-phospho peptide (dark blue) or treated and blocked with non-phospho peptide (purple) using Phospho-HS1 (Tyr397) antibody HS1Y397-F12 at 0.01µg/mL.

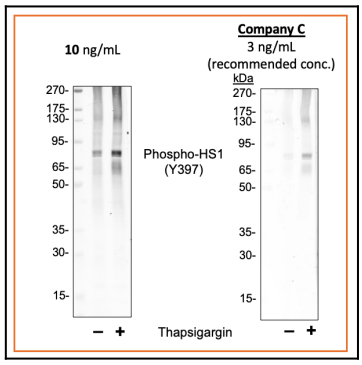


Fig-4: Western blot analysis of Ramos cell extract untreated or treated with 300 nM thapsigargin for 30 min using 10 ng/mL Phospho-HS1 (Tyr397) antibody HS1Y397-F12 at 0.01µg/mL. Company C antibody at 3 ng/mL (manufacturer's recommended concentration) developed using the same exposure.

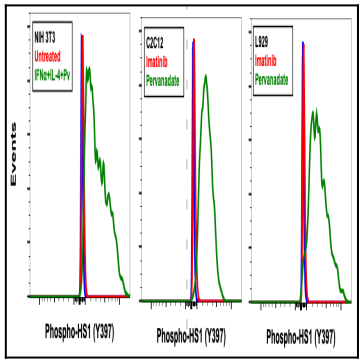


Fig-5: Flow cytometric analysis of mouse cells secondary antibody only negative control (blue) or control (red) or stimulated (green) using Phospho-HS1 (Tyr397) antibody HS1Y397-F12 at 0.01µg/mL.

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