

# Phospho-HS1 (Tyr397) (F12) rabbit mAb FITC Conjugate

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## #2398

Store at: 2-8°C

**For Research Use Only. Not For Use In Diagnostic Procedures.**

Applications	Detection	Clonality	Isotype
Flow Cytometry	N/A	Monoclonal	Rabbit IgGk

**Format:** FITC

**Cross Reactivity:** Predicted to work with mouse, rat and other homologues.

**Formulation:** 1X PBS, 0.09% NaN<sub>3</sub>, 0.2% BSA

**Preparation:** Protein A+G

**Reactivity:** Human, Mouse

### Recommended

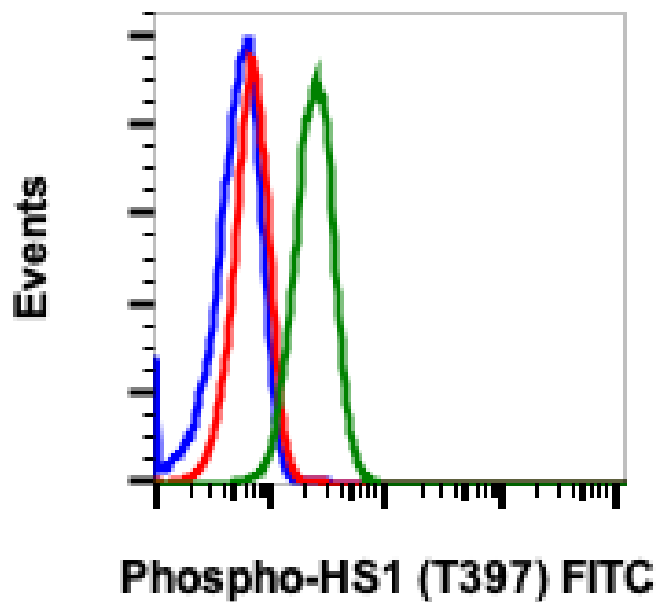
**Usage:** For flow cytometric staining, the suggested use of this reagent is 5 µL per million cells or 5 µL per 100 µL of staining volume. It is recommended that the reagent be titrated for optimal performance for each application. See product image legends for additional information.

**Immunogen:** 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.

### References:

Brunati AM, et al., (1999) Journal of Biological Chemistry. 274:7557-7564.  
Cavnar PJ, et al., (2012) Journal of Biological Chemistry. 287: 25466-25477.



Flow cytometric analysis of Ramos cells untreated and unstained as negative control (blue) or untreated (red) or treated with pervanadate (green) and stained using Phospho-HS1 (Tyr397) FITC conjugated antibody HS1Y397-F12. Cat. #2398.