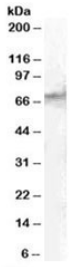
STAM2 Antibody / Hbp Antibody (R35458)

Catalog No.	Formulation	Size
R35458-100UG	0.5 mg/ml in 1X TBS, pH7.3, with 0.5% BSA (US sourced) and 0.02% sodium azide	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Predicted Reactivity	Dog, Mouse
Format	Antigen affinity purified
Host	Goat
Clonality	Polyclonal (goat origin)
Isotype	Goat Ig
Purity	Antigen affinity
Gene ID	10254
Applications	Western blot: 1-3ug/ml ELISA (peptide) LOD: 1:8000
Limitations	This STAM2 Antibody / Hbp Antibody is available for research use only.



STAM2 Antibody Human Spleen WB. Western blot testing of human spleen lysate using STAM2 Antibody / Hbp Antibody at 1 ug/ml. A specific band is detected at approximately 70 kDa, consistent with the routinely observed migration of STAM2 despite its predicted molecular weight of approximately 58 kDa. The higher apparent molecular weight is attributed to phosphorylation-dependent mobility shifts and the presence of multiple STAM2 isoforms. This STAM2 Antibody, also called Hbp Antibody, is suitable for studies of endosomal sorting, ESCRT-0 function, and receptor trafficking. (Ref. 1)

Description

STAM2 Antibody / Hbp Antibody recognizes Signal Transducing Adaptor Molecule 2, a cytoplasmic adaptor protein historically known as Hbp (Hrs-binding protein) because of its direct interaction with Hrs (HGS). Hbp is a core component of the ESCRT-0 complex, where it cooperates with Hrs to recognize ubiquitinated membrane proteins and direct them into the endosomal sorting pathway. Through this activity, Hbp helps determine whether activated cell-surface receptors are recycled back to the plasma membrane or targeted for lysosomal degradation, making it an important regulator of

receptor signaling and intracellular protein turnover.

Hbp contains an SH3 domain and multiple protein interaction motifs that allow it to function as a scaffold for signaling and membrane trafficking proteins. Together with Hrs, Hbp recruits ubiquitinated cargo and additional ESCRT machinery required for multivesicular body formation. This process is essential for the downregulation of receptor tyrosine kinases, cytokine receptors, and other signaling molecules following activation. By controlling receptor trafficking, Hbp influences signaling pathways involved in cell growth, differentiation, immune responses, and survival. Dysregulation of Hbp-mediated endosomal sorting has been linked to abnormal receptor signaling, impaired protein homeostasis, and cancer progression.

Because Hbp functions at the intersection of signal transduction and vesicle trafficking, it is widely studied in cell biology, oncology, neuroscience, and immunology. The protein localizes predominantly to early endosomes, where it displays a characteristic punctate cytoplasmic distribution that frequently concentrates in the perinuclear region. Studies of Hbp often focus on receptor internalization, endosomal maturation, ubiquitin-dependent cargo recognition, ESCRT complex assembly, and lysosomal targeting. Hbp also participates in the cellular response to growth factors and cytokines by regulating the duration and intensity of downstream signaling events.

An STAM2 Antibody is a valuable tool for investigating Hbp expression, intracellular localization, and endosomal trafficking mechanisms in cultured cells and tissue specimens. Researchers frequently use Hbp Antibody reagents to examine ESCRT-0 function, receptor downregulation, ubiquitin-mediated protein sorting, and vesicle transport in both normal physiology and disease models.

Explore our STAM2 Antibody / Signal Transducing Adaptor Molecule 2 Antibody page to learn more about STAM2 biology, endosomal sorting, and receptor trafficking.

Application Notes

Optimal dilution of the STAM2 Antibody / Hbp Antibody should be determined by the researcher.

Immunogen

Amino acids QSIDPTDSKPDSQD were used as the immunogen for this STAM2 antibody. No cross-reaction expected with STAM1.

Storage

Aliquot and store the STAM2 antibody at -20oC.

Alternate Names

STAM2 Antibody, Signal Transducing Adaptor Molecule 2 Antibody, STAM-2 Antibody, Hbp Antibody, Hrs-Binding Protein Antibody

References (1)

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