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SSB3 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP6691c

Specification

SSB3 Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q6PJ21

SSB3 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 90864

Other Names
SPRY domain-containing SOCS box protein 3, SSB-3, SPSB3, C16orf31, SSB3

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP6691c was selected from the Center region of human SSB3. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SSB3 Antibody (Center) Blocking Peptide - Protein Information

Name SPSB3 {ECO:0000303|PubMed:38418882, ECO:0000312|HGNC:HGNC:30629}

Function
Substrate-recognition component of a cullin-5-RING E3 ubiquitin-protein ligase complex (ECS complex, also named CRL5 complex), which mediates the ubiquitination and subsequent proteasomal degradation of target proteins, such as CGAS and SNAI1 (PubMed:29059170, PubMed:38418882). The ECS(SPSB3) complex catalyzes 'Lys-48'-linked ubiquitination of nuclear CGAS in cycling cells, leading to its degradation (PubMed:38418882). Recognizes and binds nucleosome-bound CGAS: ubiquitination and degradation of nuclear CGAS during G1 and G2 phases is required to promote low intranuclear CGAS abundance before the next mitotic cycle (PubMed:38418882). The ECS(SPSB3) complex also mediates ubiquitination and degradation of phosphorylated SNAI1

(PubMed:29059170).

Cellular Location
Nucleus. Note=Nuclear SPSB3 levels increase during interphase

SSB3 Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

SSB3 Antibody (Center) Blocking Peptide - Images

SSB3 Antibody (Center) Blocking Peptide - Background

SSB3 may be a substrate recognition component of a SCF-like ECS (Elongin BC-CUL2/5-SOCS-box protein) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins.

SSB3 Antibody (Center) Blocking Peptide - References

Kile,B.T., Trends Biochem. Sci. 27 (5), 235-241 (2002)