

Anti-Human S-Phase Kinase-associated protein 2 (Skp-2) Purified

Catalog Number: 14-5697

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Contents: Anti-Human S-Phase Kinase-associated protein 2 (Skp-2) Purified
Catalog Number: 14-5697
Clone: SJBCH
Concentration: 0.5 mg/mL
Host/Isotype: Mouse IgG1, lambda

REF



Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C.

Batch Code: Refer to vial

Use By: Refer to vial

Description

The monoclonal antibody SJBCH recognizes human Skp-2 (S-phase kinase-associated protein 2), a 47 kDa F-box protein that interacts with the Cyclin E-Cdk2 complex. Members of the F-box protein family are characterized by a 40 amino acid F-box motif, named after cyclin F. F-box proteins act as adapter proteins, associating with substrate proteins and bringing them to the core of the ubiquitin ligase complex where they bind to Skp-2. Skp-2 associates with p27 and is required for the ubiquitination and subsequent degradation of p27 (cyclin-dependent kinase (Cdk) inhibitor). P27 binds to and inhibits cyclin E-cdk2 complexes, as a result preventing progression through the cell cycle. It is the Skp-2-dependent degradation of phosphorylated p27 that allows for the G1-S transition in both transformed cells and diploid fibroblasts.

Skp-2 has been reported to be overexpressed in a variety of cancer types and correlates with poor prognosis. Skp-2 overexpression has been documented in colon mucinous carcinoma, gastric adenocarcinoma, thymoma, melanoma, prostate adenocarcinoma, lung adenocarcinoma, and ER (estrogen receptor) negative breast cancers.

Applications Reported

This SJBCH antibody has been reported for use in western blotting, immunohistochemical staining of formalin-fixed paraffin embedded tissue sections (IHC-P), and immunocytochemical staining (ICC).

Applications Tested

This SJBCH antibody has been tested by western blot, immunohistochemistry on formalin-fixed paraffin embedded human breast cancer tissue with low pH antigen retrieval, and by immunocytochemistry on fixed and permeabilized HeLa cells at less than or equal to 10 ug/mL. It is recommended that this antibody be carefully titrated for optimal performance in the assay of interest.

References

Bond M, Wu YJ. Proliferation unleashed: the role of Skp2 in vascular smooth muscle cell proliferation. *Front Biosci.* 2011 Jan 1;16:1517-35.

Konecny FA. Review of cellular and molecular pathways linking thrombosis and innate immune system during sepsis. *J Res Med Sci.* 2010 Nov;15(6):348-58.

Radke S, Pirkmaier A, Germain D. Differential expression of the F-box proteins Skp2 and Skp2B in breast cancer. *Oncogene.* 2005 May 12;24(21):3448-58.

Related Products

00-4953 IHC /ICC Blocking Buffer - Low Protein
00-4954 20X TBS Wash Buffer for IHC/ICC
00-4955 IHC Antigen Retrieval Solution – Low pH (10X)
00-4958 Fluoromount-G™
14-4714 Mouse IgG1 K Isotype Control Purified (P3.6.2.8.1)

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