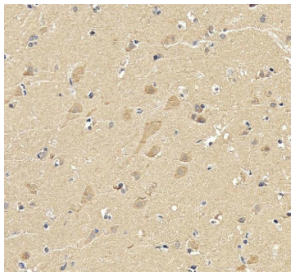
SKP1 Antibody / S-phase kinase-associated protein 1 (RQ5610)

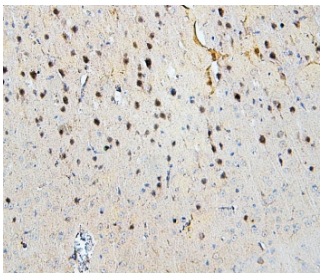
Catalog No.	Formulation	Size
RQ5610	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

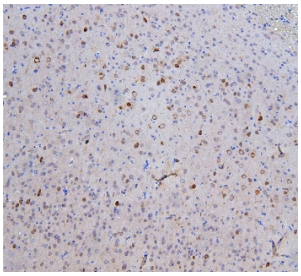
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P63208
Localization	Nuclear, cytoplasmic
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Immunofluorescence: 5ug/ml Flow cytometry: 1-3ug/million cells Direct ELISA: 0.1-0.5ug/ml
Limitations	This SKP1 antibody is available for research use only.



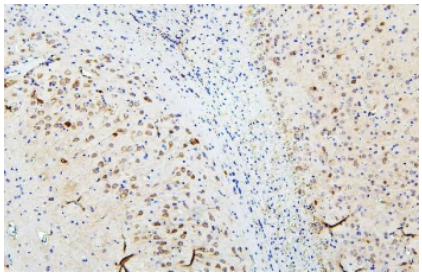
IHC staining of FFPE human brain tissue with SKP1 antibody. HIER: boil tissue sections in pH8 EDTA buffer for 20 min and allow to cool before testing.



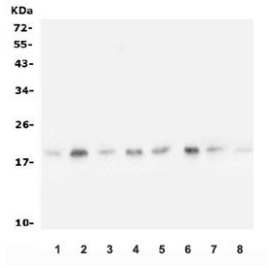
IHC staining of FFPE mouse brain with SKP1 antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



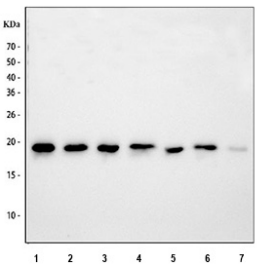
IHC staining of FFPE rat brain with SKP1 antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



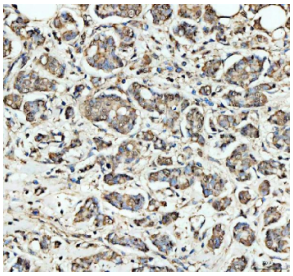
IHC staining of FFPE rat brain with SKP1 antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



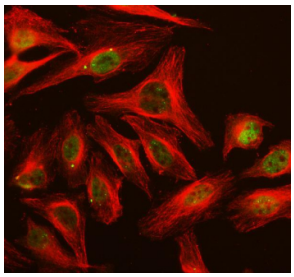
Western blot testing of human 1) U-87 MG, 2) T-47D, 3) Caco-2, 4) PC-3, 5) K562, 6) rat brain, 7) mouse brain and 8) mouse RAW264.7 lysate with SKP1 antibody. Predicted molecular weight ~19 kDa.



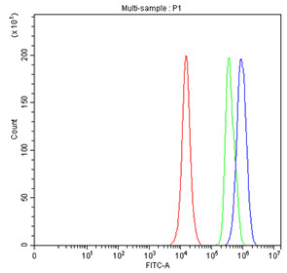
Western blot testing of human 1) T-47D, 2) Caco-2, 3) PC-3, 4) rat brain, 5) rat RH35, 6) mouse brain and 7) mouse RAW264.7 lysate with SKP1 antibody. Predicted molecular weight ~19 kDa.



IHC staining of FFPE human breast cancer tissue with SKP1 antibody. HIER: boil tissue sections in pH8 EDTA buffer for 20 min and allow to cool before testing.



Immunofluorescent staining of FFPE human HeLa cells with SKP1 antibody (green) and Alpha Tubulin mAb (red). HIER: steam section in pH6 citrate buffer for 20 min.



Flow cytometry testing of fixed and permeabilized human PC-3 cells with SKP1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= SKP1 antibody.

Description

SKP1, or S-phase kinase-associated protein 1, is a core component of the SCF (SKP1-Cullin-F-box) E3 ubiquitin ligase complex, which plays a central role in targeting proteins for ubiquitin-mediated degradation. This process is vital for regulating numerous cellular functions, including cell cycle progression, signal transduction, and transcription.

SKP1 functions by linking F-box proteins, which serve as substrate recognition components, to the cullin-based scaffold of the SCF complex. Through this interaction, SKP1 contributes to the specificity and timing of protein degradation, impacting processes such as DNA replication and cell division. Altered SKP1 activity has been implicated in oncogenesis, making it a subject of interest in cancer research.

Multiple isoforms of SKP1 have been identified, resulting from alternative splicing. These isoforms may differ in their interactions with F-box proteins and their efficiency in forming functional SCF complexes. Understanding these isoforms enhances our knowledge of the dynamic regulation of proteostasis within the cell.

A high-quality SKP1 antibody is essential for detecting the native and isoform-specific forms of SKP1 in different experimental contexts. The SKP1 antibody can be used in western blotting, immunofluorescence, and immunohistochemistry to study its expression patterns and localization. In disease models, the SKP1 antibody is valuable for examining changes in the ubiquitin-proteasome system and its downstream effects.

NSJ Bioreagents provides validated SKP1 antibody products to support researchers in investigating protein turnover and its implications in normal physiology and disease.

Application Notes

Optimal dilution of the SKP1 antibody should be determined by the researcher.

Immunogen

A human recombinant protein (amino acids P2-K128) was used as the immunogen for the SKP1 antibody.

Storage

After reconstitution, the SKP1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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