

Basic Information

Product Name	Anti-SKP2 Antibody	
Gene Name	SKP2	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC, ICC/IF	
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.	
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human SKP2, which shares 88.9% and 94.4% amino acid (aa) sequence identity with mouse and rat SKP2, respectively.	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	46, 48 kDa	
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

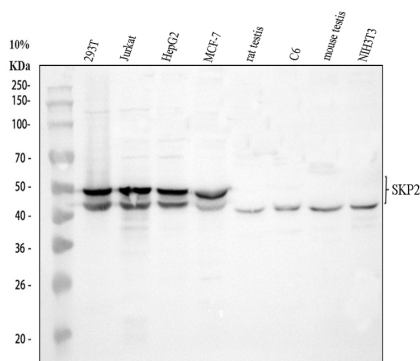
Storage

12 months from date of receipt, -20°C as supplied.

Background Information

The F box protein Skp2 (S-phase kinase-associated protein 2) is oncogenic, and its frequent amplification and overexpression correlate with the grade of malignancy of certain tumors. Skp2 controls p300-p53 signaling pathways in cancer cells, making it a potential molecular target for cancer therapy. This gene positively regulates the G(1)-S transition by controlling the stability of several G(1) regulators, such as the cell cycle inhibitor p27. This study provides evidence of a role for an F-box protein in oncogenesis and establishes SKP2 as a protooncogene causally involved in the pathogenesis of lymphomas.

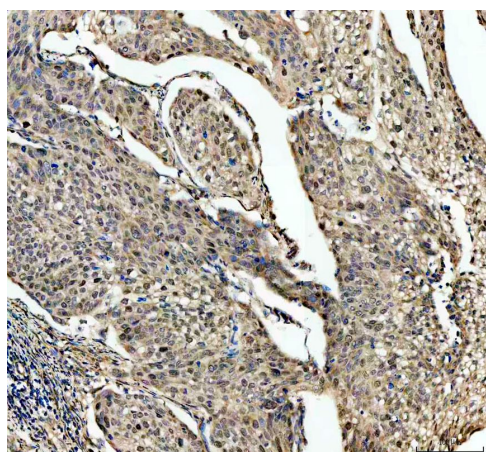
Selected Validation Data



Western blot analysis of SKP2 using anti-SKP2 antibody (A00544). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

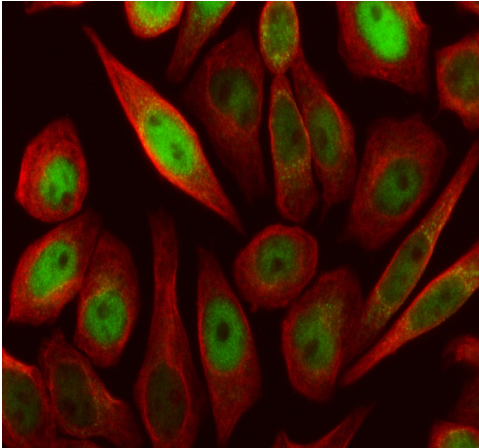
Lane 1: human 293T whole cell lysates,
Lane 2: human Jurkat whole cell lysates,
Lane 3: human HepG2 whole cell lysates,
Lane 4: human MCF-7 whole cell lysates,
Lane 5: rat testis tissue lysates,
Lane 6: rat C6 whole cell lysates,
Lane 7: mouse testis tissue lysates,
Lane 8: mouse NIH/3T3 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-SKP2 antigen A03957-Aen affinity purified polyclonal antibody (A00544) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for SKP2 at approximately 46, 48 kDa. The expected band size for SKP2 is at 46, 48 kDa.



IHC analysis of SKP2 using anti-SKP2 antibody (A00544).

SKP2 was detected in a paraffin-embedded section of human cervical cancer tissue. The tissue section was incubated with rabbit anti-SKP2 Antibody (A00544) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.



IF analysis of SKP2 using anti-SKP2 antibody (A00544) and anti-Beta Tubulin antibody (M01857-3).

SKP2 was detected in an immunocytochemical section of HeLa cells. The section was incubated with rabbit anti-SKP2 Antibody (A00544) at a dilution of 1:100. Dylight488-conjugated Anti-rabbit IgG Secondary Antibody (green) (Catalog # BA1127) and Cy3-conjugated Anti-mouse IgG Secondary Antibody (red) (Catalog # BA1031) were used as secondary antibody.