


Rabbit Anti-SKP2 antibody

SL1096R

Product Name:	SKP2
Chinese Name:	细胞S期激酶相关蛋白2抗体
Alias:	p45skp2; skp2p45; p45; skp2 p45;S-phase kinase-associated protein 2; SKP2; CDK2/Cyclin A associated protein p45; Cyclin A/CDK2 associated protein p45; F box protein Skp2; F box/LRR repeat protein 1; FBL 1; FBL1; FBXL 1; FBXL1; FLB 1; FLB1; MGC1366; SKP2_HUMAN.
文献引用 	Specific References(5) SL1096R has been referenced in 5 publications. [IF=1.84] Sun, Yan, et al. "Thyroid hormone inhibits the proliferation of piglet Sertoli cell via PI3K signaling pathway." Theriogenology (2014). WB ; PubMed:25284282
	[IF=2.81] Yang, Wei-Rong, et al. "mTOR is involved in 17 β -estradiol-induced, cultured immature boar Sertoli cell proliferation via regulating the expression of SKP2, CCND1, and CCNE1." Molecular Reproduction and Development (2015). ELISA;Pig . PubMed:25739982
	[IF=2.81] Yang, Wei-Rong, et al. "mTOR is involved in 17 β -estradiol-induced, cultured immature boar Sertoli cell proliferation via regulating the expression of SKP2, CCND1, and CCNE1." Molecular Reproduction and Development (2015). ELISA;Pig . PubMed:25739982
	[IF=4.50] Jiao, Zhang Jiao, et al. "MicroRNA-1285 regulates 17 β -estradiol-inhibited immature boar Sertoli cell proliferation via adenosine monophosphate-activated protein kinase activation." Endocrinology (2015): en-2014. WB ; PubMed:26287402
	[IF=5.23] Pan, Yi, et al. "RIG-I inhibits pancreatic β cell proliferation through

	competitive binding of activated Src." Scientific Reports 6 (2016).WB;Mouse. PubMed:27349479
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Cow,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1µg/TestIF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	48kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Skp2:351-424/424
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	<p>Substrate recognition component of a SCF(SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins involved in cell cycle progression, signal transduction and transcription. Specifically recognizes phosphorylated CDKN1B/p27kip and is involved in regulation of G1/S transition. Degradation of CDKN1B/p27kip also requires CKS1. Recognizes target proteins ORC1L, CDT1, RBL2, MLL, CDK9, RAG2, FOXO1A, UBP43, and probably MYC, TOB1 and TAL1. Degradation of TAL1 also requires STUB1. Recognizes CDKN1A in association with CCNE1 or CCNE2 and CDK2.</p> <p>[PATHWAY] Protein modification; protein ubiquitination. [SUBUNIT] Part of the SCF(SKP2) complex consisting of CUL1, RBX1, SKP1 and SKP2. Interacts directly with CUL1 and SKP1. Interacts with CKS1. Interacts with the cyclin A-CDK2 complex. Interacts with ORC1L, phosphorylated CDT1, phosphorylated RBL2, ELF4, phosphorylated RAG2, FOXO1A, UBP43, MYC, TOB1, TAL1 and MLL.</p> <p>[SIMILARITY] Contains 1 F-box domain. [SIMILARITY] Contains 8 LRR (leucine-rich) repeats.</p> <p>Function: Substrate recognition component of a SCF (SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins involved in cell cycle progression, signal transduction and transcription. Specifically recognizes phosphorylated CDKN1B/p27kip and is involved in regulation of G1/S transition. Degradation of CDKN1B/p27kip also requires CKS1.</p>

Recognizes target proteins ORC1, CDT1, RBL2, MLL, CDK9, RAG2, FOXO1, UBP43, and probably MYC, TOB1 and TAL1. Degradation of TAL1 also requires STUB1. Recognizes CDKN1A in association with CCNE1 or CCNE2 and CDK2. Promotes ubiquitination and destruction of CDH1 in a CK1-Dependent Manner, thereby regulating cell migration.

Subunit:

Part of a SCF(SKP2) complex consisting of CUL1, RBX1, SKP1 and SKP2. Component of a SCF(SKP2)-like complex containing CUL1, SKP1, TRIM21 and SKP2. Interacts directly with CUL1 and SKP1. Interacts with CKS1. Interacts with the cyclin-A-CDK2 complex. Interacts with ORC1, phosphorylated CDT1, phosphorylated RBL2, ELF4, phosphorylated RAG2, FOXO1, UBP43, MYC, TOB1, TAL1 and MLL. Interacts with TRIM21.

Subcellular Location:

Cytoplasm. Nucleus.

Post-translational modifications:

Ubiquitinated by the APC/C complex, leading to its degradation by the proteasome. Deubiquitinated by USP13. Acetylation at Lys-68 and Lys-71 increases stability through impairment of APC/C-mediated proteolysis and promotes cytoplasmic retention. Deacetylated by SIRT3.

Similarity:

Contains 1 F-box domain.
Contains 9 LRR (leucine-rich) repeats.

SWISS:

Q13309

Gene ID:

6502

Database links:

[Entrez Gene: 6502](#) Human

[Entrez Gene: 27401](#) Mouse

[Entrez Gene: 294790](#) Rat

[Omim: 601436](#) Human

[SwissProt: Q13309](#) Human

[SwissProt: Q9Z0Z3](#) Mouse

[Unigene: 23348](#) Human

[Unigene: 35584](#) Mouse

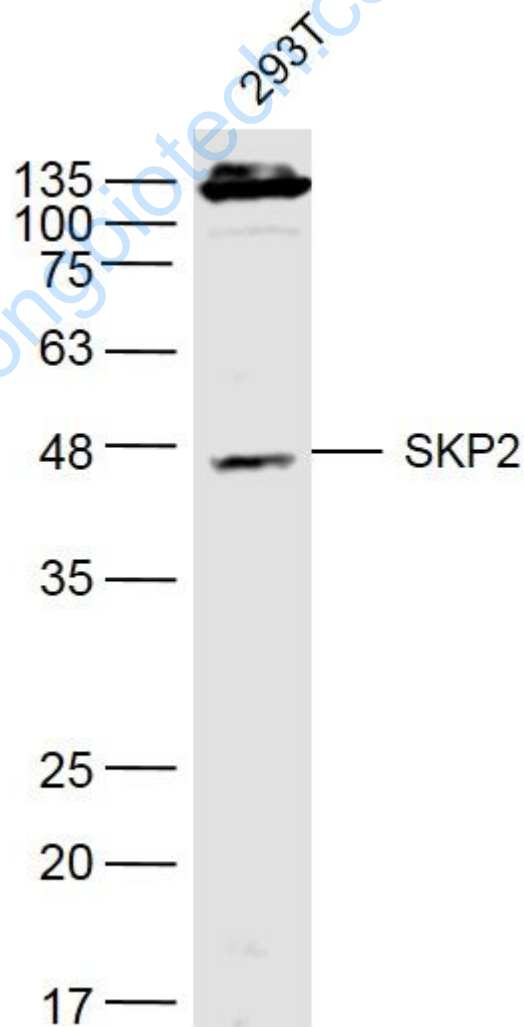
[Unigene: 154278](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Skp2异常表达可加速细胞周期转化, 该蛋白与Tumour分化程度有关, Skp2参与细胞转化和Tumour的形成, 目前主要用于消化系统Tumour方面的研究。

Picture:



Sample:

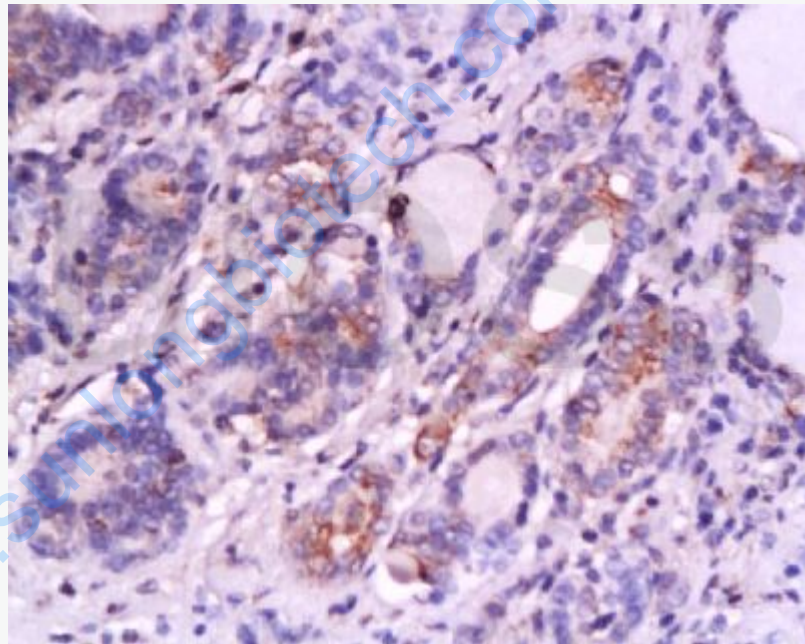
293T(Human) Cell Lysate at 40 ug

Primary: Anti-SKP2 (SL1096R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 48 kD

Observed band size: 48 kD

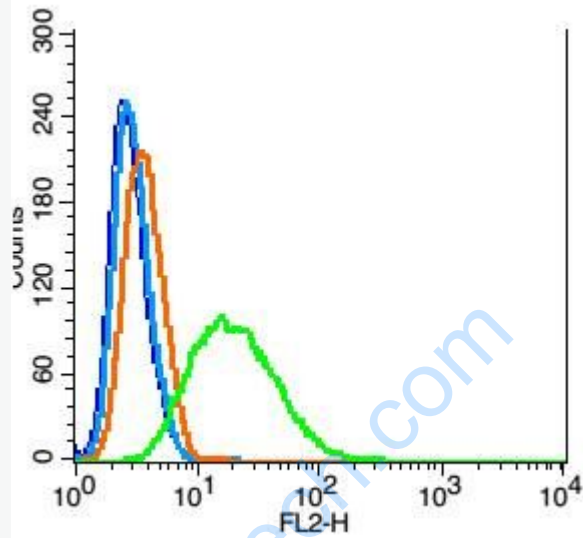


Tissue/cell: human thyroid gland carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-Skp2/skp2 p45 Polyclonal Antibody, Unconjugated(SL1096R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-

0023) and DAB(C-0010) staining



Blank control: Hela(blue).

Primary Antibody:Rabbit Anti- phospho-SKP2 antibody(SL1096R), Dilution: 1 μ g in 100 μ L 1X PBS containing 0.5% BSA;

Isotype Control Antibody: Rabbit IgG(orange) ,used under the same conditions);

Secondary Antibody: Goat anti-rabbit IgG-PE(white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA.

Protocol

The cells were fixed with 2% paraformaldehyde (10 min) , then permeabilized with 90% ice-cold methanol for 30 min on ice. Antibody (SL1096R) were incubated for 30 min on the ice, followed by 1 X PBS containing 0.5% BSA + 1 0% goat serum (15 min) to block non-specific protein-protein interactions. Then the Goat Anti-rabbit IgG/PE antibody was added into the blocking buffer mentioned above to react with the primary antibody of bs-1096R at 1/200 dilution for 30 min on ice.

	Acquisition of 20,000 events was performed.
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