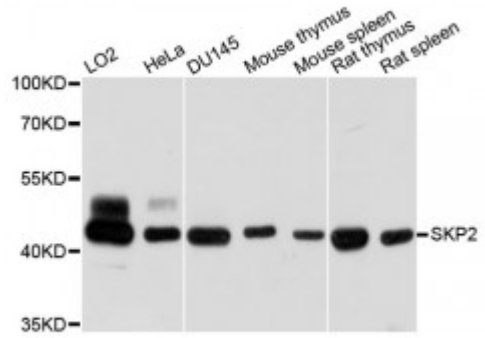
Anti-SKP2 Antibody



Description	This gene encodes a member of the F-box protein family which is characterized by an approximately 40 amino acid motif, the F-box. The F-box proteins constitute one of the four subunits of ubiquitin protein ligase complex called SCFs (SKP1-cullin-F-box), which function in phosphorylation-dependent ubiquitination. The F-box proteins are divided into 3 classes: Fbws containing WD-40 domains, Fbls containing leucine-rich repeats, and Fbxs containing either different protein-protein interaction modules or no recognizable motifs. The protein encoded by this gene belongs to the Fbls class; in addition to an F-box, this protein contains 10 tandem leucine-rich repeats. This protein is an essential element of the cyclin A-CDK2 S-phase kinase. It specifically recognizes phosphorylated cyclin-dependent kinase inhibitor 1B (CDKN1B, also referred to as p27 or KIP1) predominantly in S phase and interacts with S-phase kinase-associated protein 1 (SKP1 or p19). In addition, this gene is established as a protooncogene causally involved in the pathogenesis of lymphomas. Alternative splicing of this gene generates three transcript variants encoding different isoforms.

Model	STJ116316
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	WB
Immunogen	A synthetic peptide corresponding to a sequence within amino acids 1-100 of human SKP2 (NP_005974.2).
Gene ID	6502
Gene Symbol	SKP2

Dilution range	WB 1:500 - 1:2000
Purification	Affinity purification
Note	For Research Use Only (RUO).
Protein Name	S-phase kinase-associated protein 2 Cyclin-A/CDK2-associated protein p45 F-box protein Skp2 F-box/LRR-repeat protein 1 p45skp2
Molecular Weight	47.761 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:10901OMIM:601436Reactome:R-HSA-174178
Alternative Names	S-phase kinase-associated protein 2 Cyclin-A/CDK2-associated protein p45 F-box protein Skp2 F-box/LRR-repeat protein 1 p45skp2
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, Recognizes target proteins ORC1, CDT1, RBL2, KMT2A/MLL1, 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,
Cellular Localization	Cytoplasm
Post-translational Modifications	Ubiquitinated by the APC/C complex, leading to its degradation by the proteasome, Deubiquitinated by USP13,