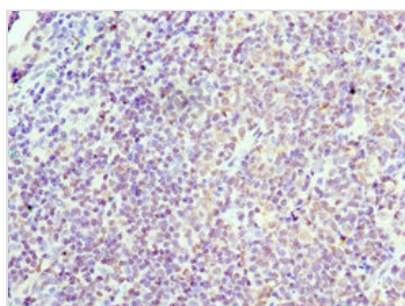




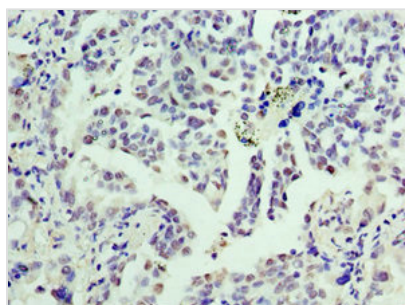
CCND3 Antibody

Product Code	CSB-PA004814ESR2HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P30281
Immunogen	Recombinant Human G1/S-specific cyclin-D3 protein (1-292AA)
Raised In	Rabbit
Species Reactivity	Human
Tested Applications	ELISA, WB, IHC, IF, IP; Recommended dilution: WB:1:500-1:2000, IHC:1:20-1:200, IF:1:50-1:200, IP:1:200-1:2000
Relevance	Regulatory component of the cyclin D3-CDK4 (DC) complex that phosphorylates and inhibits members of the retinoblastoma (RB) protein family including RB1 and regulates the cell-cycle during G1/S transition. Phosphorylation of RB1 allows dissociation of the transcription factor E2F from the RB/E2F complex and the subsequent transcription of E2F target genes which are responsible for the progression through the G1 phase. Hypophosphorylates RB1 in early G1 phase. Cyclin D-CDK4 complexes are major integrators of various mitogenenic and antimitogenic signals. Also substrate for SMAD3, phosphorylating SMAD3 in a cell-cycle-dependent manner and repressing its transcriptional activity. Component of the ternary complex, cyclin D3/CDK4/CDKN1B, required for nuclear translocation and activity of the cyclin D-CDK4 complex.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Purification Method	Antigen Affinity Purified
Isotype	IgG
Clonality	Polyclonal
Alias	G1/S-specific cyclin-D3, CCND3
Species	Human
Research Area	Others
Target Names	CCND3

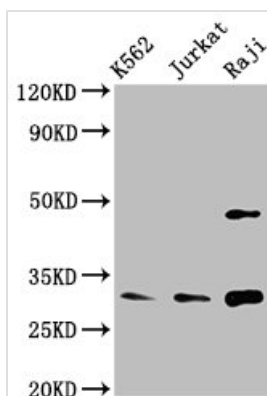
Image



Immunohistochemistry of paraffin-embedded human tonsil tissue using CSB-PA004814ESR2HU at dilution of 1:100



Immunohistochemistry of paraffin-embedded human lung cancer using CSB-PA004814ESR2HU at dilution of 1:100

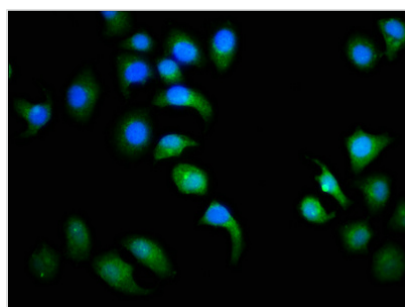


Western Blot

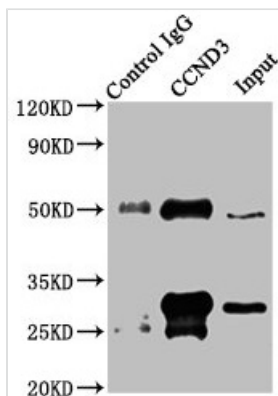
Positive WB detected in: K562 whole cell lysate, Jurkat whole cell lysate, Raji whole cell lysate
All lanes: CCND3 antibody at 3.4µg/ml

Secondary

Goat polyclonal to rabbit IgG at 1/50000 dilution
Predicted band size: 33 kDa
Observed band size: 33 kDa



Immunofluorescence staining of A549 cells with CSB-PA004814ESR2HU at 1:113, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).



Immunoprecipitating CCND3 in Jurkat whole cell lysate

Lane 1: Rabbit control IgG instead of CSB-PA004814ESR2HU in Jurkat whole cell lysate.
For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/2000)

Lane 2: CSB-PA004814ESR2HU (5µg) + Jurkat whole cell lysate (500µg)

Lane 3: Jurkat whole cell lysate (20µg)