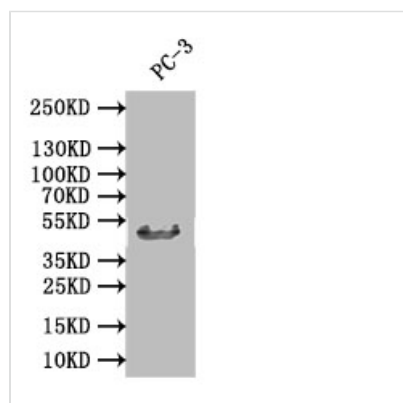




DDB2 Recombinant Monoclonal Antibody

Product Code	CSB-RA442393A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q92466
Immunogen	A synthesized peptide derived from Human DDB2
Species Reactivity	Human
Tested Applications	ELISA, WB, IHC, FC; Recommended dilution: WB:1:500-1:2000, IHC:1:50-1:200, FC:1:50-1:200
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Epigenetics and Nuclear Signaling;Cancer
Gene Names	DDB2
Clone No.	24E5

Image



Western Blot

Positive WB detected in: PC-3 whole cell lysate

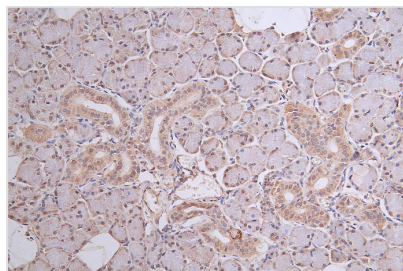
All lanes: DDB2 antibody at 1:1000

Secondary

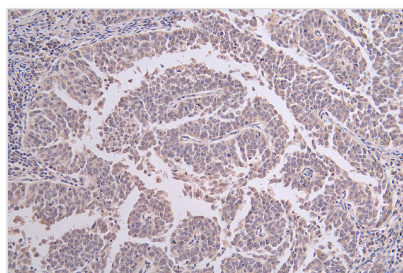
Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 47 kDa

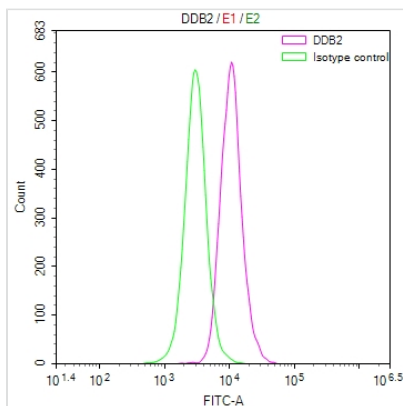
Observed band size: 47 kDa



IHC image of CSB-RA442393A0HU diluted at 1:50 and staining in paraffin-embedded human salivary gland tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.46% DAB.



IHC image of CSB-RA442393A0HU diluted at 1:50 and staining in paraffin-embedded human cervical cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.46% DAB.



Overlay Peak curve showing A549 cells stained with CSB-RA442393A0HU (red line) at 1:50. The cells were fixed in 4% formaldehyde and permeated by 0.2% TritonX-100. Then 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1μg/1*10⁶cells) for 45min at 4°C. The secondary antibody used was FITC-conjugated Goat Anti-rabbit IgG(H+L) at 1:200 dilution for 35min at 4°C. Control antibody (green line) was rabbit IgG (1μg/1*10⁶cells) used under the same conditions. Acquisition of >10,000 events was performed.

Description

The production of the DDB2 recombinant monoclonal antibody relies on in vitro expression systems, which are established by cloning the DNA sequences of DDB2 antibodies from immunoreactive rabbits. The immunogen used in this process is a synthesized peptide derived from the human DDB2 protein. Subsequently, the genes encoding the DDB2 antibodies are inserted into plasmid vectors, and these recombinant plasmid vectors are transfected into host cells to facilitate antibody expression. The DDB2 recombinant monoclonal antibody then undergoes purification through affinity chromatography and is subjected to extensive testing in ELISA, WB, IHC, and FC applications. These tests affirm its reactivity with the human DDB2 protein.

DDB2 is a DNA damage recognition protein that plays a central role in the NER pathway, which is responsible for identifying and repairing various types of DNA lesions, particularly those induced by UV radiation. Its function in DNA repair helps maintain genomic integrity and prevent mutations that can lead to cancer and other diseases.