Product Datasheet

DDB2 Rabbit mAb

Catalog No: #49990

Package Size: #49990-1 50ul #49990-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

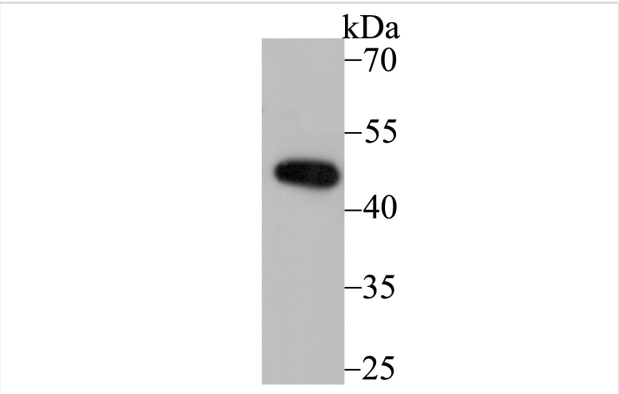
Description

Product Name	DDB2 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JE16-41
Purification	ProA affinity purified
Applications	WB,IHC,FC
Species Reactivity	Hu
Immunogen Description	Recombinant protein with C-terminal human DDB2.
Other Names	damage-specific DNA binding protein 2 antibody Damage-specific DNA-binding protein 2 antibody DDB p48 subunit antibody Ddb2 antibody DDB2_HUMAN antibody DDBb antibody DNA damage-binding protein 2 antibody UV-damaged DNA-binding protein 2 antibody UV-DDB 2 antibody Xeroderma pigmentosum group E protei antibody
Accession No.	Swiss-Prot#:Q92466
Uniprot	Q92466
GeneID	1643;
Calculated MW	48 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

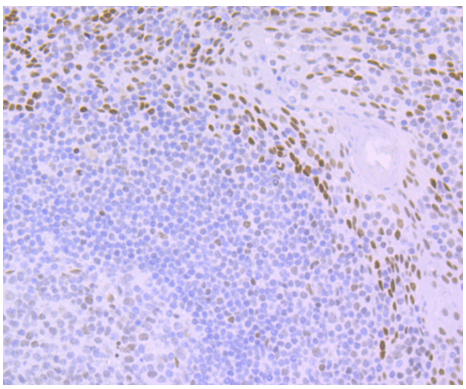
Application Details

WB: 1:500-1:2,000IHC: 1:50-1:200 FC: 1:50-1:100

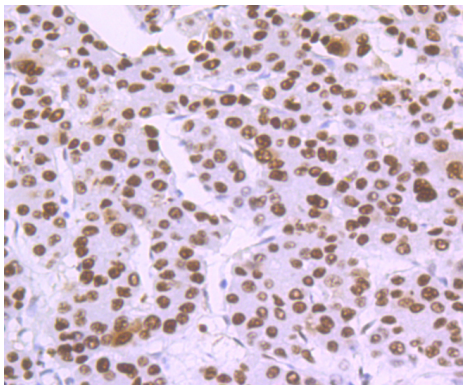
Images



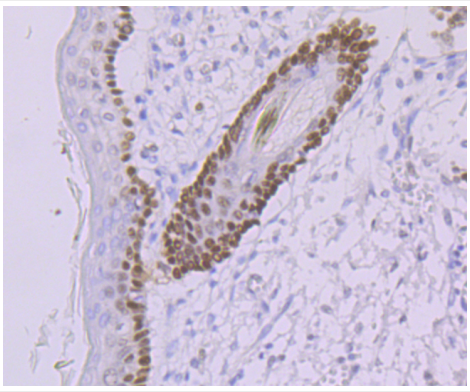
Western blot analysis of DDB2 on Daudi cell using anti-DDB2 antibody at 1/1,000 dilution.



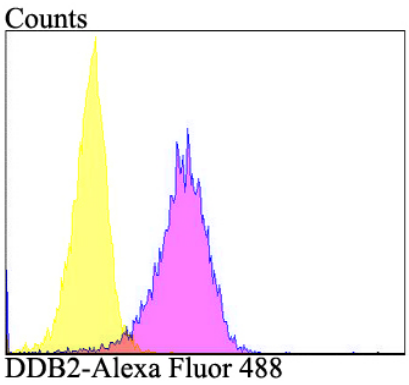
Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-DDB2 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue using anti-DDB2 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded human skin tissue using anti-DDB2 antibody. Counter stained with hematoxylin.



Flow cytometric analysis of A549 cells with DDB2 antibody at 1/100 dilution (purple) compared with an unlabelled control (cells without incubation with primary antibody; yellow). Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary antibody.

Background

Damaged DNA binding protein (DDB) is a heterodimer composed of two subunits, p127 and p48, which are designated DDB1 and DDB2, respectively. The DDB heterodimer is involved in repairing DNA damaged by ultraviolet light. Specifically, DDB, also designated UV-damaged DNA binding protein (UV-DDB), xeroderma pigmentosum group E binding factor (XPE-BF) and hepatitis B virus X-associated protein 1 (XAP-1), binds to damaged cyclobutane pyrimidine dimers (CPDs). Mutations in the DDB2 gene are implicated as causes of xeroderma pigmentosum group E, an autosomal recessive disease in which patients are defective in nucleotide excision DNA repair. XPE is characterized by hypersensitivity of the skin to sunlight with a high frequency of skin cancer as well as neurologic abnormalities. The hepatitis B virus (HBV) X protein interacts with DDB1, which may mediate HBx transactivation.

References

Note: This product is for in vitro research use only