

POLH Antibody

Catalog No: #32458

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Description

Product Name	POLH Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB IHC IF
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of total POLH protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human POLH.
Target Name	POLH
Other Names	FLJ16395; FLJ21978; RAD30; RAD30A; XP-V
Accession No.	Swiss-Prot:Q9Y253NCBI Gene ID:5429
SDS-PAGE MW	78KD
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

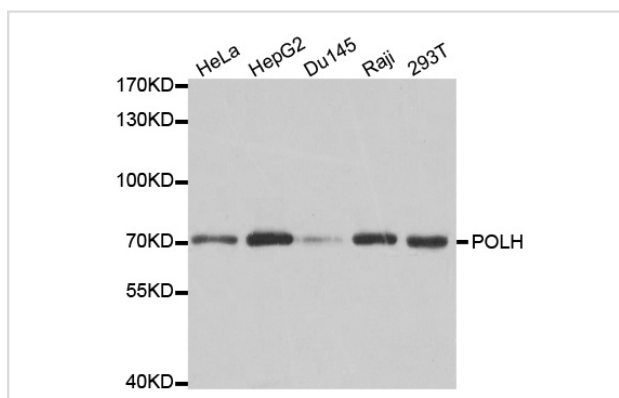
Application Details

Western blotting: 1:500 - 1:2000

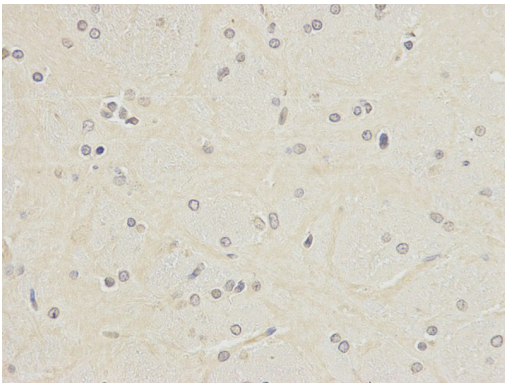
Immunohistochemistry: 1:50 - 1:100

Immunofluorescence: 1:50 - 1:200

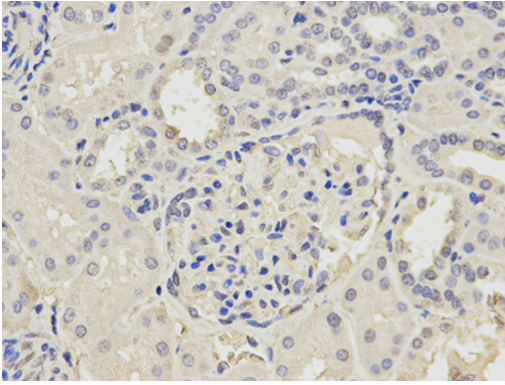
Images



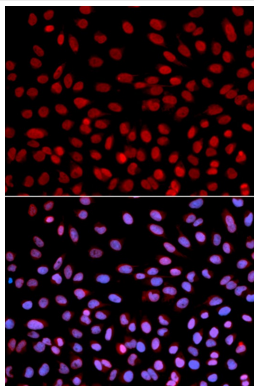
Western blot analysis of extracts of various cell lines, using POLH antibody.



Immunohistochemical analysis of paraffin-embedded human kidney using POLH antibody at dilution of 1:200 (400x lens).



Immunohistochemical analysis of paraffin-embedded rat brain using POLH antibody at dilution of 1:200 (400x lens).



Immunofluorescence analysis of U2OS cell using POLH antibody. Blue: DAPI for nuclear staining.

Background

This gene encodes a member of the Y family of specialized DNA polymerases. It copies undamaged DNA with a lower fidelity than other DNA-directed polymerases. However, it accurately replicates UV-damaged DNA; when thymine dimers are present, this polymerase inserts the complementary nucleotides in the newly synthesized DNA, thereby bypassing the lesion and suppressing the mutagenic effect of UV-induced DNA damage. This polymerase is thought to be involved in hypermutation during immunoglobulin class switch recombination. Mutations in this gene result in XPV, a variant type of xeroderma pigmentosum.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.