

Anti-DNA Polymerase zeta Antibody

Catalog # AP53897

Product Information

Application	WB, IHC, IF/IC
Primary Accession	O60673
Reactivity	Human, Mouse, Rat, Pig, Chicken, Bovine, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	352776

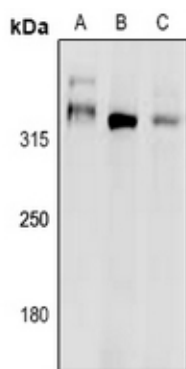
Additional Information

Gene ID	5980
Other Names	POLZ; REV3; DNA polymerase zeta catalytic subunit; Protein reversionless 3-like; REV3-like; hREV3
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human DNA Polymerase zeta. The exact sequence is proprietary.
Dilution	WB~~1/500 - 1/1000 IHC~~1/50 - 1/200 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

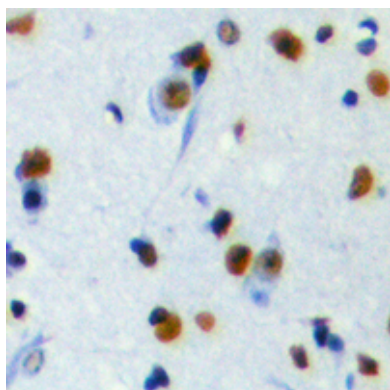
Protein Information

Name	REV3L
Synonyms	POLZ, REV3
Function	Catalytic subunit of the DNA polymerase zeta complex, an error-prone polymerase specialized in translesion DNA synthesis (TLS). Lacks an intrinsic 3'-5' exonuclease activity and thus has no proofreading function.
Cellular Location	Nucleus.
Tissue Location	Ubiquitously expressed.

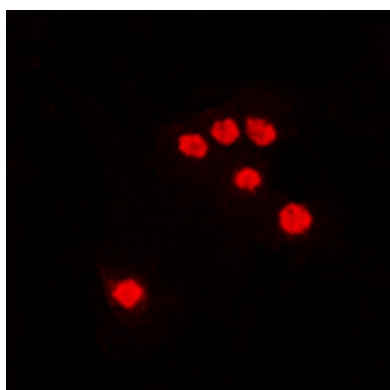
Images



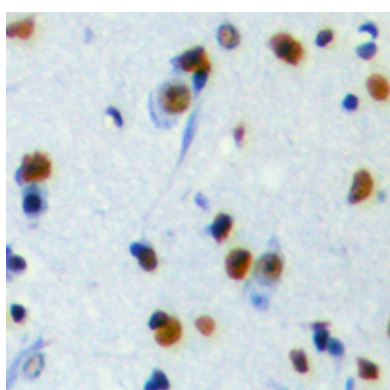
Western blot analysis of DNA Polymerase zeta expression in rat lung (A), mouse kidney (B), H1792 (C) whole cell lysates. (Predicted band size: 352 kD; Observed band size: 350 kD)



Immunohistochemical analysis of DNA Polymerase zeta staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of DNA Polymerase zeta staining in HEK293T cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.



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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.