

POLI Polyclonal Antibody

Catalog number: 13635-1-AP

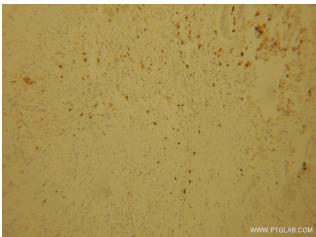
Size: 27 µg/150 µl

Source: Rabbit

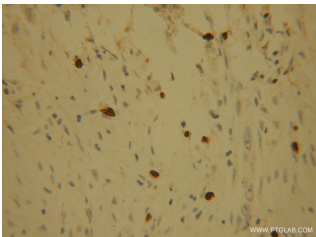
Isotype: IgG

Synonyms:

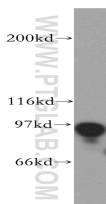
POLI; DNA polymerase iota,
Eta2, POLI, polymerase (DNA
directed) iota, RAD30 homolog
B, RAD30B, RAD30B



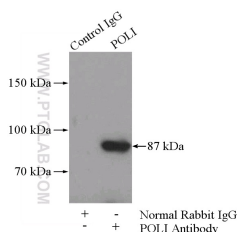
Immunohistochemical of paraffin-embedded human pancreas cancer using 13635-1-AP (POLI antibody) at dilution of 1:100 (under 10x lens)



Immunohistochemical of paraffin-embedded human pancreas cancer using 13635-1-AP (POLI antibody) at dilution of 1:100 (under 40x lens)



mouse testis tissue were subjected to SDS PAGE followed by western blot with 13635-1-AP (POLI antibody) at dilution of 1:800



IP Result of anti-POLI

Background

Mammalian Pol ι owns an unusual combination of properties: it is stimulated by Mn²⁺ ions, can bypass some DNA lesions and misincorporates “G” opposite template “T” more frequently than incorporates the correct “A.” [PMID:21304950] It also was shown to possess dRP lyase activity. In addition, Pol ι is much more efficient in the presence of Mn²⁺ in comparison to Mg²⁺. [PMID: 17609217]. It has been proposed that POLI involves in immunoglobulin somatic hypermutation (SHM), bypass of deaminated cytosines, several adducts of the purine bases. DNA strand crosslinks and is involved in DNA repair under oxidative stress. [PMID:15199127]

Applications

Tested applications:	ELISA, WB, IHC, IP
Cited applications:	WB
Species specificity:	Human, Mouse, Rat; other species not tested.
Cited species:	Human
Calculated POLI MW:	715aa, 80 kDa
Observed POLI MW:	87 kDa
Positive WB detected in:	Mouse testis tissue, human heart tissue
Positive IP detected in:	Mouse testis tissue
Positive IHC detected in:	Human pancreas cancer tissue
Recommended dilution:	WB: 1:500-1:5000 IP: 1:500-1:5000 IHC: 1:20-1:200

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag4563
GenBank accession number:	BC032662
Gene ID (NCBI):	11201
Full name:	Polymerase (DNA directed) iota

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C.

(IP:13635-1-AP, 4ug;
Detection:13635-1-AP 1:1000)
with mouse testis tissue lysate
4000ug.