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TDG Polyclonal Antibody

(Catalog # A-6704)

Background
Thymine DNA Glycosylase (TDG) is a nuclear protein that belongs to the TDG/mug DNA glycosylase family. TDG amends G/T mismatches to G/C pairs by hydrolyzing the carbon-nitrogen bond between the sugar-phosphate backbone of the DNA and the mispaired thymine. In addition, TDG amends a subset of G/U mispairs inefficiently removed by the more abundant uracil glycosylases. Retinoic acid receptors interact with TDG physically and functionally, improving the capability of the retinoid X receptor and the retinoid X receptor/retinoid acid receptor complex to bind to their response elements. This protein's DNA substrate and AP site binding affinity is diminished when it interacts with SUMO-1 and SUMO-2/3, two ubiquitin-like proteins that also covalently modify TDG. This sumoylation correlates with a substantial rise in enzymatic turnover in reactions with a G/U substrate and the shortage of G/T processing activity.

Description
TDG Polyclonal Antibody. Unconjugated. Raised in: Rabbit.

Formulation
Liquid. PBS containing 0.02% sodium azide, 50% glycerol, pH 7.3..

Specificity
Mouse, Rat

Isotype
IgG

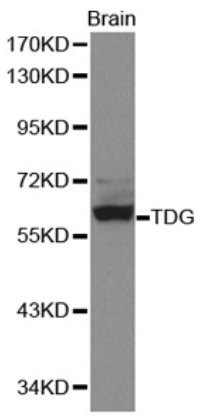
Uniprot ID
Q13569

Purification
Affinity Purified

Immunogen
Recombinant Protein of Human TDG

Storage
Shipped at 4°C. Store at -20°C. Avoid multiple freeze/thaw cycles.

Application
WB; Recommended dilution: WB 1:500 - 1:2000



Western blot analysis of brain cell lysate using TDG Polyclonal Antibody.

