

À des fins de recherche uniquement

# Anticorps Monoclonal anti-TDG

Numéro de catalogue: 66707-1-Ig



## Informations de base

<b>Numéro de catalogue:</b> 66707-1-Ig	<b>Numéro d'acquisition GenBank:</b> BC037557	<b>Méthode de purification:</b> Purification par protéine A
<b>Taille:</b> 150ul, Concentration: 1000 µg/ml by Nanodrop and 933 µg/ml by Bradford method using BSA as the standard;	<b>Identification du gène (NCBI):</b> 6996	<b>CloneNo.:</b> 1G2E2
<b>Hôte:</b> Mouse	<b>Nom complet:</b> thymine-DNA glycosylase	<b>Dilutions recommandées:</b> WB 1:1000-1:8000 IHC 1:200-1:800 IF 1:50-1:500
<b>Isotype:</b> IgG2b	<b>MW calculé:</b> 410 aa, 46 kDa	
<b>Immunogen Catalog Number:</b> AG27408	<b>MW observés:</b> 55-60 kDa	

## Applications

### Applications testées:

IF, IHC, WB, ELISA

### Spécificité de l'espèce:

Humain, rat, souris

**Remarque-IHC: il est suggéré de démasquer l'antigène avec un tampon de TE buffer pH 9.0; (\*) À défaut, le démasquage de l'antigène peut être effectué avec un tampon citrate pH 6,0.**

### Contrôles positifs:

**WB:** cellules HeLa, cellules COLO 320, cellules HSC-T6, cellules HT-29, cellules Jurkat, cellules Raji

**IHC:** tissu de cancer du sein humain,

**IF:** cellules HepG2,

## Informations générales

TDG belongs to the TDG/mug DNA glycosylase family. TDG corrects G/T mismatches to G/C pairs. It is capable of hydrolyzing the carbon-nitrogen bond between the sugar-phosphate backbone of the DNA and a mismatched thymine. In addition to the G/T, it can remove thymine also from C/T and T/T mismatches in the order G/T >> C/T > T/T. It has no detectable activity on apyrimidinic sites and does not catalyze the removal of thymine from A/T pairs or from single-stranded DNA. It can also remove uracil and 5-bromouracil from mismatches with guanine. RNF4 interacts with and requires the base excision repair enzymes TDG and APE1 for active demethylation (PMID:20696907). TDG is modified by SUMO-1 and SUMO-2/3. The molecular weight of non-modified TDG is 46 kDa and modified TDG is 55-60 kDa.

## Stockage

### Stockage:

Stocker à -20°C. Stable pendant un an après l'expédition.

### Tampon de stockage:

PBS avec azotate de sodium à 0,02 % et glycérol à 50 % pH 7,3

L'aliquotage n'est pas nécessaire pour le stockage à -20°C

\*\*\* Les 20ul contiennent 0,1% de BSA.

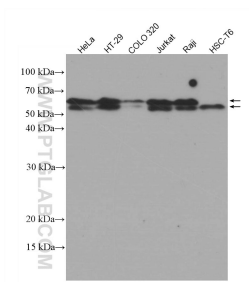
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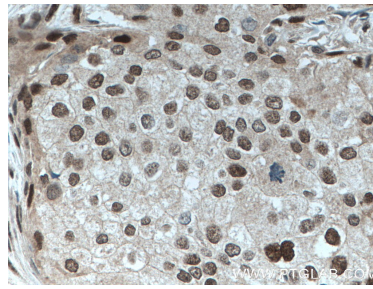
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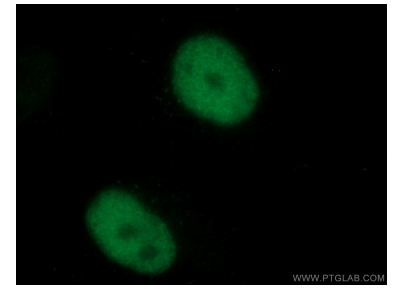
## Données de validation sélectionnées



Various lysates were subjected to SDS PAGE followed by western blot with 66707-1-Ig (TDG antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66707-1-Ig (TDG antibody) at dilution of 1:400 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 66707-1-Ig (TDG antibody) at dilution of 1:100 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).