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TDG (vPair™) Antibodies

Cat#: R1062-vp

Predicted M.W.: 46 kDa

Application: WB

Quantity: 50 ul TDG (N) (R1062-1) Rabbit Polyclonal Antibody &
50 ul TDG (C) (R1062-2) Rabbit Polyclonal Antibody

Lot#: Refer to vial

Uniprot ID: Q13569

Product Introduction:

vPair™ antibodies represent a pair of fully characterized antibodies that recognize two different regions of a target protein. The product is developed by Abiocode to address whether the signal observed truly represents the protein of interest, an often encountered issue in antibody-based assays. The use of a pair of fully characterized vPair™ antibodies in the same assay can validate signal specificity since vPair™ antibodies recognize two independent epitopes of the same protein. Different sets of vPair™ antibodies are developed at Abiocode to work with specific applications, including antibody arrays, Western blot, IP-Western, CHIP, IHC, and FACS.

Background:

G/T mismatch-specific thymine DNA glycosylase (TDG) belongs to the TDG/mug DNA glycosylase family. TDG removes thymine moieties from G/T mismatches by hydrolyzing the carbon-nitrogen bond between the sugar-phosphate backbone of DNA and the mispaired thymine. TDG also removes thymine from C/T and T/T mispairings with lower activity. In addition, TDG can remove uracil and 5-bromouracil from mispairings with guanine. TDG plays a central role in cellular defense against genetic mutation caused by the spontaneous deamination of 5-methylcytosine and cytosine.

Other Names:

G/T mismatch-specific thymine DNA glycosylase, Thymine-DNA glycosylase

Source and Purity:

Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing either the N-terminal [TDG (N) (R1062-1)] or the C-terminal [TDG (C) (R1062-2)] region of human TDG. Antibodies were purified by affinity purification using immunogen.

Storage Buffer and Condition:

Supplied in 1 x PBS (pH 7.4), 100 ug/ml BSA, 40% Glycerol, 0.01% NaN₃. Store at -20 °C. Stable for 6 months from date of receipt.

For research use only. Not for therapeutic or diagnostic purposes.
Abiocode, Inc., 29397 Agoura Rd., Ste 106, Agoura Hills, CA 91301

Species Specificity:

Human, Mouse

Tested Applications:

WB: 1:1,000-1:5,000 (detect endogenous protein*)

*: The apparent protein size on WB may be different from the calculated M.W. due to modifications.

Product Data:

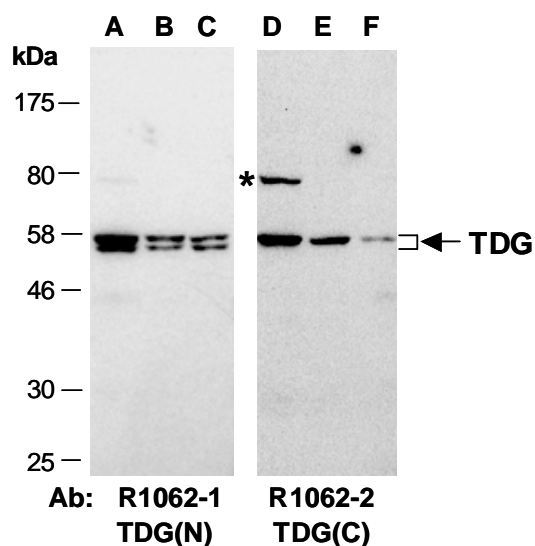


Fig 1. Western blot of total cell extracts from (A, D) mouse thymocytes, (B, E) human MCF7 and (C, F) human Jurkat, using 2 independent antibodies against 2 distinct regions of human TDG at RT for 2 h. The observed M.W. of TDG is approximately 56 kD. The appearance of TDG as doublets has been reported by Cortellino et al. (Cell, 2011, 146:67). The potentially sumoylated TDG indicated by * has been described by Hardeland et al. (EMBO, 2002, 21:1456).