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SMUG1 (vPair™) Antibodies

Cat#: R1615-vp

Lot#: Refer to vial

Predicted | Observed M.W.: 31 kDa

Application: WB

Quantity: 50 ul SMUG1 (M) (R1615-1) Rabbit Polyclonal Antibody (Uniprot ID: Q53HV7) &

50 ul SMUG1 (N) (R1615-4) Rabbit Polyclonal Antibody (Uniprot ID: Q6P5C5)

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:

Single-strand selective monofunctional uracil DNA glycosylase (SMUG1) is a protein that participates in base excision repair by removing uracil from single- and double-stranded DNA. SMUG1 is responsible for recognizing base lesions in the genome and initiating base excision DNA repair. SMUG1 acts as a monofunctional DNA glycosylase specific for uracil (U) residues in DNA and has a preference for single-stranded DNA substrates. The activity is greater against mismatches (U/G) than against matches (U/A). Many alternatively spliced transcript variants exist for this gene.

Other Names:

Single-strand selective monofunctional uracil DNA glycosylase, FDG, HMUDG, UNG3

Source and Purity:

Rabbit polyclonal antibodies were produced by immunizing animals with GST-fusion proteins containing either the middle region of human SMUG1 [SMUG1 (M) (R1615-1)] or the N-terminal region of mouse SMUG1 [SMUG1 (N) (R1615-4)]. 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: 1:1,000-1:3,000 (detect endogenous protein*)

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

Product Data:

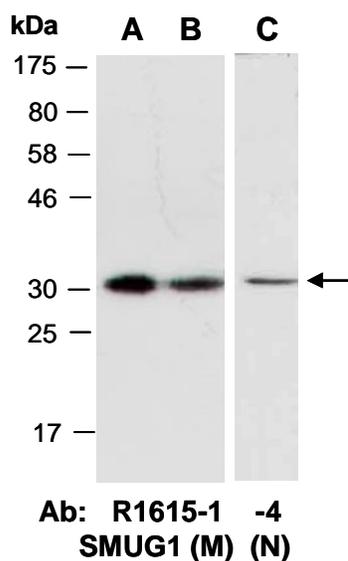


Fig 1. Western blot of total cell extracts from A, C) human HeLa, B) human Jurkat; using 2 independent Abs against 2 distinct regions of human or mouse SMUG1 at RT for 2 h.