

Datasheet for ABIN391514
anti-MGMT antibody (C-Term)[Go to Product page](#)

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Overview

Quantity:	400 µL
Target:	MGMT
Binding Specificity:	AA 156-182, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This MGMT antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 156-182 amino acids from the C-terminal region of human MGMT.
Clone:	RB19082
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	MGMT
Alternative Name:	MGMT (MGMT Products)
Background:	MGMT is involved in the cellular defense against the biological effects of O6-methylguanine

Target Details

(O6-MeG) in DNA. This protein repairs alkylated guanine in DNA by stoichiometrically transferring the alkyl group at the O-6 position to a cysteine residue in the enzyme. This is a suicide reaction: the protein is irreversibly inactivated.

Molecular Weight: 21646

Gene ID: 4255

UniProt: [P16455](#)

Pathways: [DNA Damage Repair](#), [Positive Regulation of Response to DNA Damage Stimulus](#)

Application Details

Application Notes: WB: 1:1000. IHC-P: 1:50~100. FC: 1:10~50

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

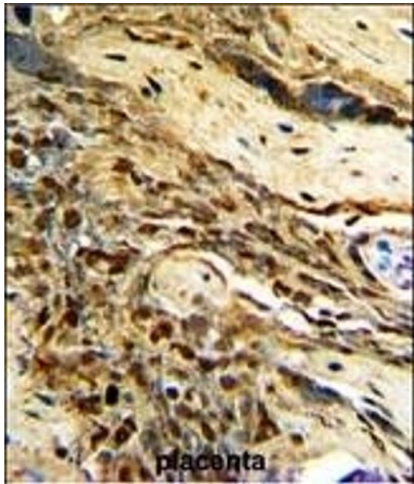
Storage: 4 °C, -20 °C

Storage Comment: Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.

Expiry Date: 6 months

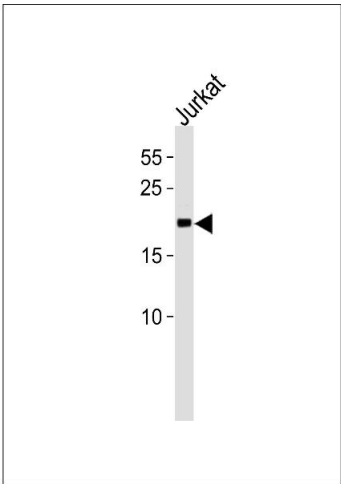
Publications

Product cited in: Sadeghi, Ullenhag, Wagenius, Tötterman, Eriksson: "Rapid expansion of T cells: Effects of culture and cryopreservation and importance of short-term cell recovery." in: **Acta oncologica (Stockholm, Sweden)**, Vol. 52, Issue 5, pp. 978-86, (2013) ([PubMed](#)).



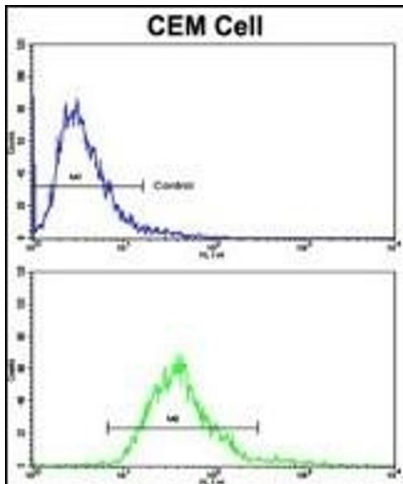
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin-embedded human placenta with MGMT Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated.



Western Blotting

Image 2. MGMT Antibody (C-term) (ABIN391514 and ABIN2841475) western blot analysis in Jurkat cell line lysates (35 µg/lane). This demonstrates the MGMT antibody detected the MGMT protein (arrow).



Flow Cytometry

Image 3. Flow cytometric analysis of CEM cells using MGMT Antibody (C-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.