

Datasheet for ABIN7249814

anti-MGMT antibody

3 Images

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Overview

| | |
|--------------|-------------------------------------|
| Quantity: | 200 µL |
| Target: | MGMT |
| Reactivity: | Rat, Mouse |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This MGMT antibody is un-conjugated |
| Application: | Immunohistochemistry (IHC) |

Product Details

| | |
|------------------|---|
| Immunogen: | Recombinant protein corresponding to Mouse MGMT |
| Isotype: | IgG |
| Characteristics: | Polyclonal Antibody |
| Purification: | Affinity purification |

Target Details

| | |
|-------------------|---|
| Target: | MGMT |
| Alternative Name: | MGMT (MGMT Products) |
| Background: | MGMT (O6-methylguanine-DNA methyltransferase) is transcriptionally activated in response to DNA damage and functions to repair mutagenic and cytotoxic O6-alkylguanine lesions caused by carcinogens or cytostatic drugs. MGMT induction by ionising radiation does not occur in p53-deficient mice, suggesting that MGMT induction may require p53. Similarly, MGMT mRNA |

Target Details

and protein were shown to be inducible by ionising radiation, only in cell lines that express functional p53, and not in cell lines that do not express wild type p53. In contrast, high MGMT activity was associated with the presence of mutant p53, in a study of oral cancer cell lines. Similarly, MGMT activity was significantly lower in ovarian tumors with wildtype p53 than in tumors with mutant p53, supporting the view that wildtype p53 down-regulates the basal MGMT promoter.

UniProt: [P26187](#), [P24528](#)

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

Application Details

Application Notes: IHC 1:100-1:500

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 260 µg/mL

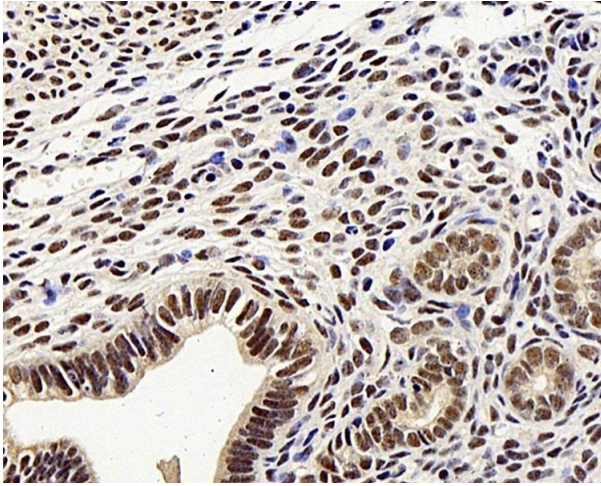
Buffer: PBS with 0.02 % sodium azide, 1 % BSA and 50 % glycerol, pH 7.4

Preservative: Sodium azide

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

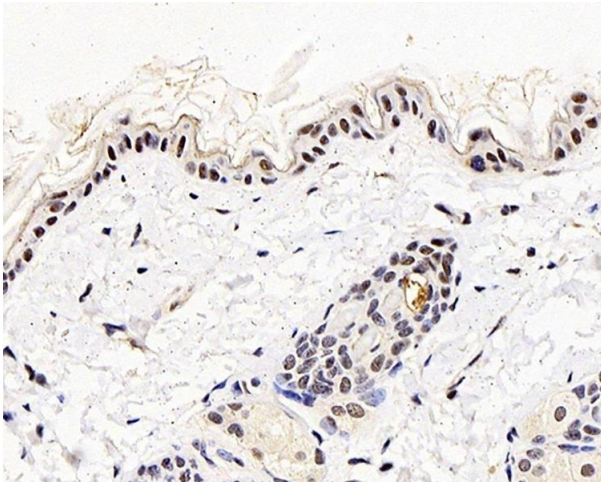
Storage: -20 °C

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.



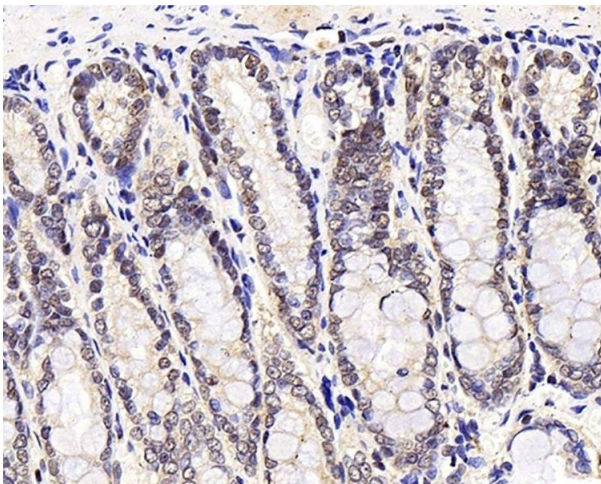
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry analysis of paraffin-embedded mouse uterus using MGMT Polyclonal Antibody at dilution of 1:300.



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Immunohistochemistry analysis of paraffin-embedded mouse skin using MGMT Polyclonal Antibody at dilution of 1:300.



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Immunohistochemistry analysis of paraffin-embedded rat stomach node using MGMT Polyclonal Antibody at dilution of 1:300.