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Datasheet for ABIN4911931  
**anti-MGMT antibody**

2 Images

Overview

Quantity:	100 µL
Target:	MGMT
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This MGMT antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Purified His-tagged MGMT protein was used to produced this monoclonal antibody.
Clone:	4C12
Isotype:	IgG1
Cross-Reactivity:	Human
Purification:	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS.

Target Details

Target:	MGMT
Alternative Name:	MGMT ( <a href="#">MGMT Products</a> )

## Target Details

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Background: Synonyms: Methylated-DNA-protein-cysteine methyltransferase, 6-O-methylguanine-DNA methyltransferase, MGMT, O-6-methylguanine-DNA-alkyltransferase

Background: Involved in the cellular defense against the biological effects of O6-methylguanine (O6-MeG) in DNA. 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 enzyme is irreversibly inactivated.

Gene ID: 4255

UniProt: [P16455](#)

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

## Application Details

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Application Notes: WB 1:300-5000  
IHC-P 1:200-400  
IF()

Restrictions: For Research Use only

## Handling

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Format: Liquid

Concentration: 0.5 µg/µL

Buffer: 0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

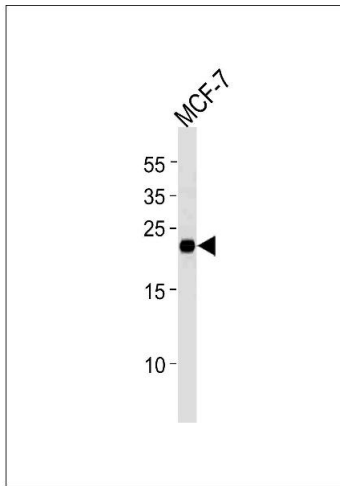
Preservative: ProClin

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

Storage: 4 °C,-20 °C

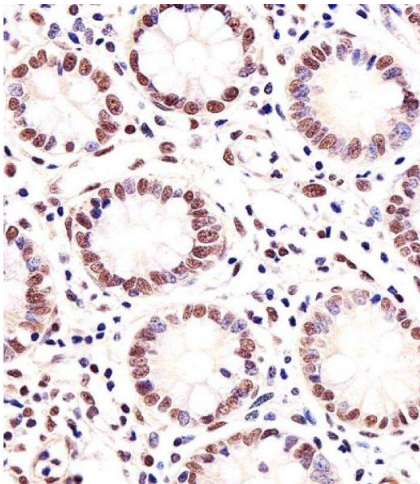
Storage Comment: Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Expiry Date: 12 months



### Western Blotting

**Image 1.** Lane 1: MCF-7 Cell lysates, probed with MGMT (888CT22.2.4) Monoclonal Antibody, unconjugated (bsm-51234M) at 1:25 overnight at 4°C followed by a conjugated secondary antibody for 60 minutes at 37°C.



### Immunohistochemistry (Paraffin-embedded Sections)

**Image 2.** Paraformaldehyde-fixed, paraffin embedded human small intestine tissue, Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min, Block endogenous peroxidase by 3% hydrogen peroxide for 15 minutes, Blocking buffer (3% BSA) at room temperature for 30min, Antibody incubation with MGMT (888CT22.2.4) Monoclonal Antibody (bsm-51234M) at 1:25 for 1 hour at 37°C, followed by a conjugated secondary antibody for 20 minutes and DAB staining.