

## MGMT

### Recombinant Rabbit Monoclonal Antibody

### Product Datasheet

Catalog# BX00011

Clone# RR609

**Predicted Molecular Wt:** 22kDa

**Species Cross-reactivity:** Human

*Species cross-reactivity determined by WB*

**Applications:** WB IHC-P FC IP

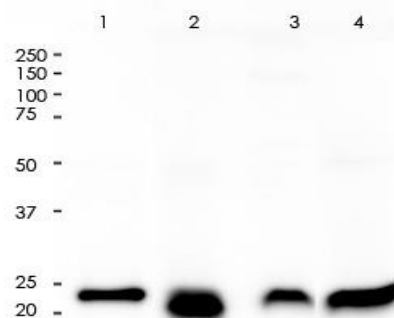
**Purity:** ProA affinity purified IgG

**Form:** Liquid

**Swissprot ID:** P16455

#### 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.



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#### Immunogen:

A synthetic peptide corresponding to residues on the N-terminus of human MGMT was used as an immunogen.

#### Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

#### Storage conditions:

-20°C.

#### Storage instructions:

Shipped on blue ice. Upon delivery, aliquot, and store at -20°C. Avoid freeze / thaw cycles.

#### Recommended Dilutions:

WB: 1:5,000 - 1:10,000  
IHC-P: 1:100 - 1:200  
FC: 1:10 - 1:200  
IP: 1:80

#### Background References:

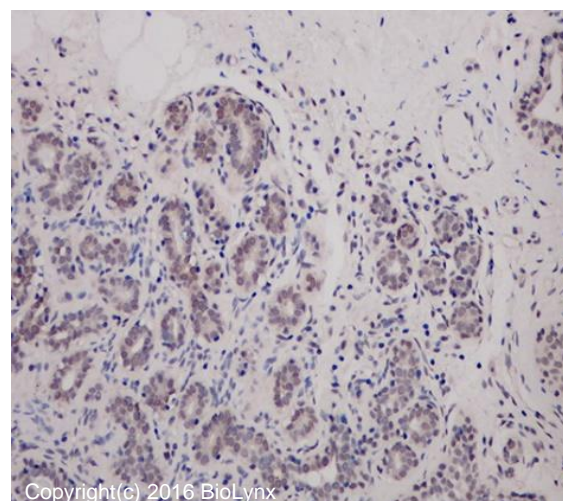
1. Viel T et al., Mol Ther 21:570-9 (2013).

2. Viel T et al., PLoS One 8:e67911 (2013).

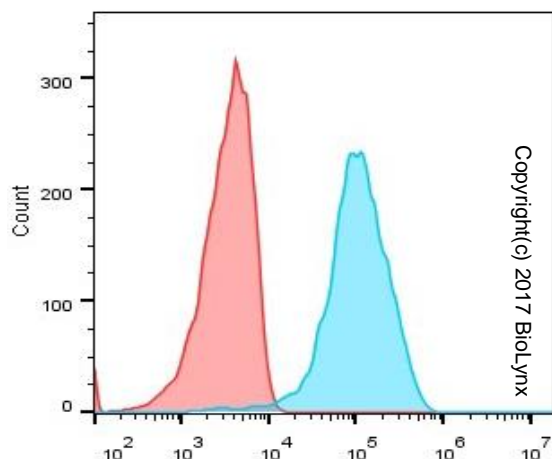
All lanes: Anti-MGMT antibody  
at 1:5,000 dilution  
Predicted MW: 22 kDa  
Observed MW: 22 kDa

Lane 1: MCF-7  
Lane 2: Jurkat  
Lane 3: Hela  
Lane 4: HT-29

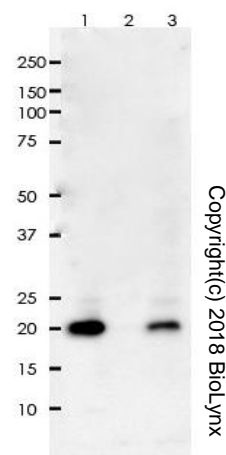
Lysates at 20 µg per lane  
2nd Ab:  
GAR HRP(H+L) 1:10,000  
Exposure: 120s



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human breast tissue labelling MGMT with RR609 at 1:200. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0.



Overlay histogram showing Jurkat cells stained with RR609 (Blue). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% TritonX-100 for 15 min. The cells were then incubated in the antibody (RR609, 1:50 dilution) in 1x PBS/1% BSA for 30 min at 4°C. The secondary antibody used was a Goat Anti-Rabbit Alexa Fluor® 488 (IgG H+L) at 1:2,000 dilution for 20 min at 4°C. Unlabelled sample (Red) was used as a control.



MGMT was immunoprecipitated from 0.4 mg of HeLa whole cell lysate with RR609 at 1:80 dilution.

2nd Ab:

GAR HRP for IP 1:500

Lane 1: RR609 IP in HeLa whole cell lysate

Lane 2: PBS instead of RR609 in HeLa whole cell lysate

Lane 3: HeLa whole cell lysate, 10 µg (input)

Exposure: 120s

Product QC'd by:



For research use only. Not for use in diagnostic or therapeutic applications.