



cell signaling solutions

Certificate of Analysis

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Anti-MsrA

(rabbit immunoaffinity purified IgG)

Catalog # 07-338

Lot # 22327

Immunogen: GST fusion protein corresponding to residues 1-233 of bovine MsrA. The immunizing sequence is identical in bovine and has 219/233 identical amino acids in human.

Specificity: Recognizes MsrA doublet, Mr 26kDa.

Species Cross-reactivity: Human, mouse, rat and cow. Is NOT cross-reactive with yeast and bacteria.

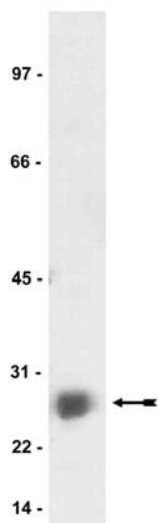
Formulation: 200 μ l of immunoaffinity purified IgG in 0.2M Tris-glycine, pH 7.4, 0.15M NaCl, 0.05% sodium azide and 5mg/ml BSA before the addition of glycerol to 30%. Liquid at -20°C.

Storage and Stability: Stable for 1 year at -20°C from date of shipment. For maximum recovery of product, centrifuge the vial prior to removing the cap.

**FOR RESEARCH USE ONLY
NOT FOR USE IN HUMANS**

Quality Control Testing

Immunoblot Analysis: 1:200-1:5000 of this lot detected MsrA in a whole tissue preparation from rat liver.



Immunoblot Analysis

Rat liver tissue preparation was resolved by electrophoresis, transferred to nitrocellulose and probed with anti-MsrA (1:500). Proteins were visualized using a goat anti-rabbit secondary antibody conjugated to HRP and a chemiluminescence detection system. Arrow indicates MsrA (26kDa).

Additional Research Applications

Immunocytochemistry: 1:100 of this antibody reported to positively immunostain rat retina and kidney, and mouse macrophage cells fixed with 4% paraformaldehyde.¹

Application References:

1. Moskovitz, J., *et al.*, *Proc. Natl. Acad. Sci.*, **93**: 3205-3208, 1996.
2. Moskovitz, J., *et al.*, *Proc. Natl. Acad. Sci. Early Edition*, 23 October, 2001.

General References:

3. Moskovitz, J., *et al.*, *J. Biol. Chem.*, **275**: 14167-14172, 2000.
4. Moskovitz, J., *et al.*, *Proc. Natl. Acad. Sci.*, **93**: 2095-2099, 1996.

Immunoblot Protocol

1. Perform SDS-polyacrylamide gel electrophoresis (SDS-PAGE) on a cell lysate sample (cell lysis buffer: 50mM Tris-HCl, pH 7.4; 1% NP-40; 0.25% sodium deoxycholate; 150mM NaCl; 1mM EGTA; 1mM PMSF; 1 μ g/ml each aprotinin, leupeptin, pepstatin; 1mM Na₃VO₄; 1mM NaF) and transfer the proteins to nitrocellulose. Wash the blotted nitrocellulose twice with water.
2. Block the blotted nitrocellulose in freshly prepared TBS containing 5% nonfat dry milk and 0.05% Tween 20 (TBST-MLK) for 2 hours at room temperature with constant agitation.
3. Incubate the nitrocellulose with **1:200-1:5000 of anti-MsrA**, diluted in freshly prepared TBST-MLK overnight with agitation at 4°C.
4. Wash the nitrocellulose twice with water.
5. Incubate the nitrocellulose in the secondary reagent of choice (a goat anti-rabbit HRP conjugated IgG, Catalog # 12-348, 1:3000 dilution was used) in TBST-MLK for 2 hours at room temperature with agitation.
6. Wash the nitrocellulose with water twice.
7. Wash the nitrocellulose in TBS-0.05% Tween 20 for 10 minutes.
8. Rinse the nitrocellulose in TBS for at least an hour at room temperature with agitation.
9. Use detection method of choice (enhanced chemiluminescence was used).