

## PRODUCT DATA SHEET

**Product:** Anti-Methionine Sulfoxide Reductase A mAb, clone 5B5

**Cat. No.:** MC-1034 (100 µL)

**Description:**

Methionine sulfoxide reductase (MsrA) reduces methionine sulfoxide (MetO) residues in proteins and free MetO to Methionine (Met). The catalytic activity of MsrA is dependent of bound metal and cofactors but it requires reducing equivalents from either DTT or a thioredoxin-regenerating system. MsrA plays an essential role in protecting cells against oxidative damage. The substrates of MsrA include calmodulin, HIV protease and -1-proteinase-inhibitor. Recent studies indicate that there is a connection between MsrA and Alzheimer's disease in mammals.

**Immunogen:**

Recombinant human protein purified from E. coli

**Host:**

Mouse

**Isotype:**

IgG2b

**Species Reactivity:**

Human and Rat. Others not tested.

**Format:**

HEPES with 0.15M NaCl with protein stabilizer, 0.03% sodium azide and 50% glycerol

**Positive Control:**

HepG2

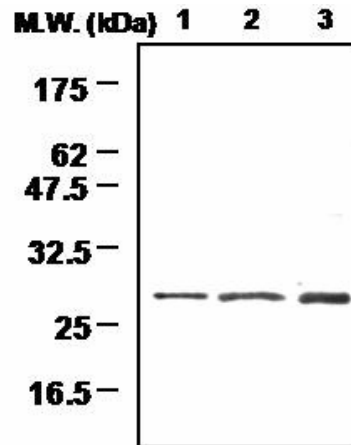
**Storage:**

Store at -20°C. Avoid repeated freeze/thaw cycles.

**Applications:**

- IHC
- Immunoprecipitation: Use at 1-2 µL

The optimal dilution for a specific application should be determined by the researcher.



**IMMUNOPRECIPITATION ANALYSIS of lysates:**

Lane 1: Input

Lane 2: Precipitates (HepG2)

Lane 3: Precipitates (Rat Liver)

Immunoblot: anti-MsrA polyclonal antibody

**Limitations:**

For *in vitro* research use only. Not for use in diagnostics or in humans.

**Warranty:**

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.