

# Product Datasheet

## Malondialdehyde Antibody (6H6) - BSA Free NBP2-59366

Unit Size: 100 ug

Store at -20C.

[www.novusbio.com](http://www.novusbio.com)



[technical@novusbio.com](mailto:technical@novusbio.com)

### Publications: 2

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**NBP2-59366**

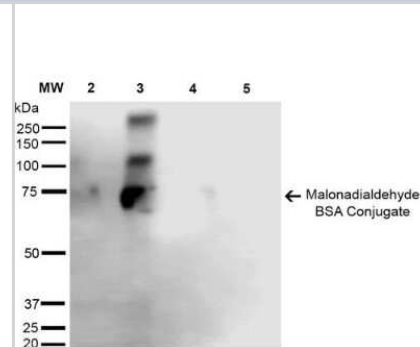
Malondialdehyde Antibody (6H6) - BSA Free

<b>Product Information</b>	
<b>Unit Size</b>	100 ug
<b>Concentration</b>	Please see the vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at -20C.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	6H6
<b>Preservative</b>	0.09% Sodium Azide
<b>Isotype</b>	IgG1
<b>Purity</b>	Protein G purified
<b>Buffer</b>	PBS (pH 7.4), 50% Glycerol
<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Mouse Malondialdehyde Antibody (6H6) - BSA Free (NBP2-59366) is a monoclonal antibody validated for use in WB, ELISA, Flow and ICC/IF. Anti-Malondialdehyde Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Mouse
<b>Species</b>	Non-species specific
<b>Specificity/Sensitivity</b>	Specific for Malondialdehyde conjugated proteins. Does not detect free Malondialdehyde. Does not cross-react with Acrolein, Crotonaldehyde, Hexanoyl Lysine, 4-Hydroxy-2-hexenal, 4-Hydroxy nonenal, or Methylglyoxal modified proteins.
<b>Immunogen</b>	Synthetic Malondialdehyde modified Keyhole Limpet Hemocyanin (KLH).
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence
<b>Recommended Dilutions</b>	Western Blot 1:1000, Flow Cytometry 1:50, ELISA 1:1000, Immunocytochemistry/ Immunofluorescence 1:50

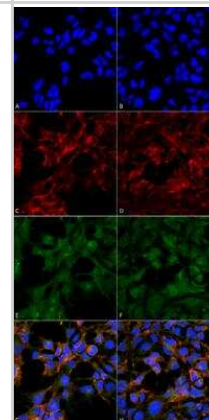


## Images

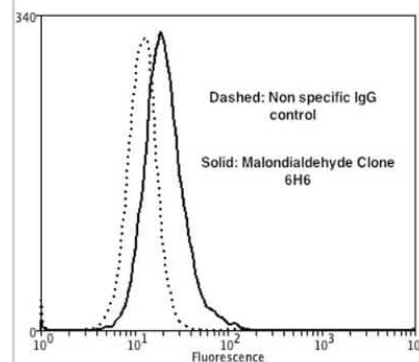
**Western Blot: Malondialdehyde Antibody (6H6) [NBP2-59366]** - Western Blot analysis of Malondialdehyde-BSA Conjugate showing detection of 67 kDa Malondialdehyde protein using Mouse Anti-Malondialdehyde Monoclonal Antibody, Clone 6H6 (NBP2-59366). Lane 1: Molecular Weight Ladder (MW). Lane 2: Malondialdehyde-BSA (0.5 ug). Lane 3: Malondialdehyde-BSA (2.0 ug). Lane 4: BSA (0.5 ug). Lane 5: BSA (2.0 ug). Block: 5% Skim Milk in TBST. Primary Antibody: Mouse Anti-Malondialdehyde Monoclonal Antibody (NBP2-59366) at 1:1000 for 2 hours at RT. Secondary Antibody: Goat Anti-Mouse IgG: HRP at 1:2000 for 60 min at RT. Color Development: ECL solution for 5 min in RT. Predicted/Observed Size: 67 kDa.



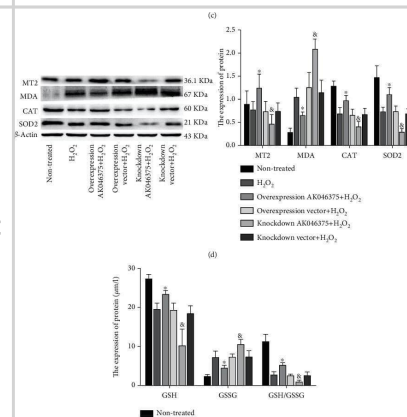
**Immunocytochemistry/Immunofluorescence: Malondialdehyde Antibody (6H6) [NBP2-59366]** - Tissue: Embryonic kidney cells (HEK293). Species: Human. Fixation: 5% Formaldehyde for 5 min. Primary Antibody: Mouse Anti-Malondialdehyde Monoclonal Antibody at 1:50 for 30-60 min at RT. Secondary Antibody: Goat Anti-Mouse Alexa Fluor 488 at 1:1500 for 30-60 min at RT. Counterstain: Phalloidin Alexa Fluor 633 F-Actin stain; DAPI (blue) nuclear stain at 1:250, 1:50000 for 30-60 min at RT. Magnification: 20X (2X Zoom). (A,C,E,G) - Untreated. (B,D,F,H) - Cells cultured overnight with 50 uM H<sub>2</sub>O<sub>2</sub>. (A,B) DAPI (blue) nuclear stain. (C,D) Phalloidin Alex Fluor 633 F-Actin stain. (E,F) Malondialdehyde Antibody. (G,H) Composite. Courtesy of: Dr. Robert Burke, University of Victoria.



**Flow Cytometry: Malondialdehyde Antibody (6H6) [NBP2-59366]** - Flow Cytometry analysis using Mouse Anti-Malondialdehyde Monoclonal Antibody, Clone 6H6 (NBP2-59366). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 90% Methanol. Primary Antibody: Mouse Anti-Malondialdehyde Monoclonal Antibody (NBP2-59366) at 1:50 for 30 min on ice. Secondary Antibody: Goat Anti-Mouse: PE at 1:100 for 20 min at RT. Isotype Control: Non Specific IgG. Cells were subject to oxidative stress by treating with 250 M H<sub>2</sub>O<sub>2</sub> for 24 hours.



**AK046375 alleviates H<sub>2</sub>O<sub>2</sub>-induced oxidative stress in primary neurons and astrocytes.** (1) Western blotting images of MT2, MDA, CAT, and SOD2 in neurons (a) and astrocytes (d) for each group, and the content of GSH, GSSG, and GSH/GSSG in neurons (b) and astrocytes (e) with quantification. (2) Fluorescence of MitoSOXred in neurons (c) and astrocytes (f) and quantification (scale bar = 50  $\mu$ m, 400x for neurons; scale bar = 50  $\mu$ m, 200x for astrocytes) (n = 6/group, mean  $\pm$  SD,  $\square$  P < 0.05 vs. the overexpression vector+H<sub>2</sub>O<sub>2</sub> group, &P < 0.05 vs. the knockdown vector+H<sub>2</sub>O<sub>2</sub> group by one-way ANOVA). Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/35222805>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



**Publications**

Tang W, Chai W, Du D et al. The lncRNA-AK046375 Upregulates Metallothionein-2 by Sequestering miR-491-5p to Relieve the Brain Oxidative Stress Burden after Traumatic Brain Injury Oxidative medicine and cellular longevity 2022 -02-16 [PMID: 35222805] (WB)

Zhang J, Tucker LD, DongYan et al. Tert-butylhydroquinone post-treatment attenuates neonatal hypoxic-ischemic brain damage in rats Neurochem. Int. 2018-03-09 [PMID: 29530758] (ICC/IF)





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### **Products Related to NBP2-59366**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

For more information on our 100% guarantee, please visit [www.novusbio.com/guarantee](http://www.novusbio.com/guarantee)

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