10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

Anti-MINA53 Rabbit Monoclonal Antibody
Catalog # ABO13867

Specification

Anti-MINA53 Rabbit Monoclonal Antibody - Product Information

Application	**WB, IF, ICC**
Primary Accession	Q8IUF8
Host	**Rabbit**
Isotype	**Rabbit IgG**
Reactivity	**Human, Mouse**
Clonality	**Monoclonal**
Format	**Liquid**

Description
Anti-MINA53 Rabbit Monoclonal Antibody . Tested in WB, ICC/IF applications. This antibody reacts with Human, Mouse.

Anti-MINA53 Rabbit Monoclonal Antibody - Additional Information

Gene ID 84864

Other Names
Ribosomal oxygenase 2 {ECO:0000312|HGNC:HGNC:19441}, 60S ribosomal protein L27a histidine hydroxylase, Bifunctional lysine-specific demethylase and histidyl-hydroxylase MINA, 1.14.11.79, Histone lysine demethylase MINA, MYC-induced nuclear antigen, Mineral dust-induced gene protein, Nucleolar protein 52, Ribosomal oxygenase MINA, ROX, RIOX2 (HGNC:19441)

Calculated MW
52800 MW KDa

Application Details
WB 1:500-1:2000
ICC/IF 1:50-1:200

Subcellular Localization
Nucleus. Nucleus, nucleolus.

Tissue Specificity
Expressed in liver, skeletal muscle, heart, pancreas, and placenta. Not detected in brain, lung or kidney. Expressed in several lung cancer tissues, but is barely detected in the adjacent non-cancerous tissues. Also highly expressed in several esophageal squamous cell carcinoma (ESCC), and colon cancer tissues, and in various cancer cell lines..

Contents
Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

Immunogen
A synthesized peptide derived from human MINA53

Purification
Affinity-chromatography

Storage	**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

Anti-MINA53 Rabbit Monoclonal Antibody - Protein Information

Name RIOX2 (HGNC:19441)

Function
Oxygenase that can act as both a histone lysine demethylase and a ribosomal histidine hydroxylase. Is involved in the demethylation of trimethylated 'Lys-9' on histone H3 (H3K9me3), leading to an increase in ribosomal RNA expression. Also catalyzes the hydroxylation of 60S ribosomal protein L27a on 'His-39'. May play an important role in cell growth and survival. May be involved in ribosome biogenesis, most likely during the assembly process of pre-ribosomal particles.

Cellular Location
Nucleus. Nucleus, nucleolus

Tissue Location
Expressed in liver, skeletal muscle, heart, pancreas, and placenta. Not detected in brain, lung or kidney Expressed in several lung cancer tissues, but is barely detected in the adjacent non-cancerous tissues. Also highly expressed in several esophageal squamous cell carcinoma (ESCC), and colon cancer tissues, and in various cancer cell lines.

Anti-MINA53 Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-MINA53 Rabbit Monoclonal Antibody - Images

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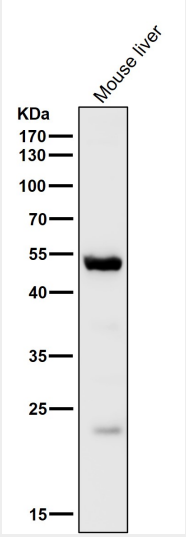
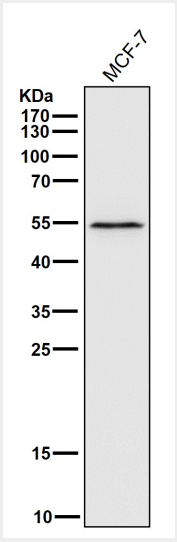


All lanes use the Antibody at 1:3K dilution for 1 hour at room temperature.



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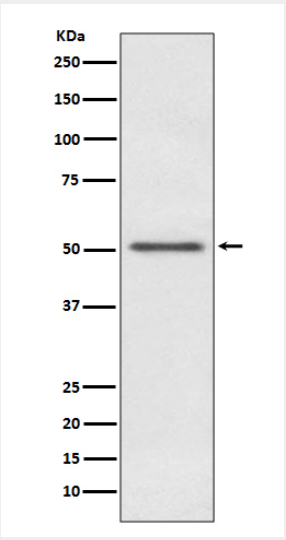

Western blot analysis of MINA53 expression in A431 cell lysate.