Anti-Mouse Mer (#3D07)

20150218ML

FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	**103-M188**
Size:	100 µg
Lot. No.:	According to product label

Preparation: This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a rat) immunized with purified recombinant mouse Mer extracellular domain. IgG1 fraction of the culture supernatant was purified by Protein G affinity chromatography.

Target Background

Synonyms (Target):	Mertk; Eyk; Mer; Nyk; nmf12

Axl (Ufo, Ark), Dtk (Sky, Tyro3, Rse, Brt) and Mer (human and mouse homologues of chicken c-Eyk) constitute a receptor tyrosine kinase subfamily. The extracellular domains of these proteins contain two Ig-like motifs and two fibronectin type III motifs. This characteristic topology is also found in neural cell adhesion molecules and in receptor tyrosine phosphatases. These receptors bind the vitamin K-dependent protein growth-arrest-specific gene 6 (Gas6) which is structurally related to the anti-coagulation factor protein S. Binding of Gas6 induces receptor autophosphorylation and downstream signaling pathways that can lead to cell proliferation, migration or the prevention of apoptosis. Recent studies suggest that this family of tyrosine kinase receptors may be involved in hematopoiesis, embryonic development, tumorigenesis and regulation of testicular functions.

Database References Target

Protein RefSeq:	NP_006334.2
Uniprot ID:	Q12866
mRNA RefSeq:	NM_006343.2

Product Specifications

Host	Rat
Reactivity against	Mouse
Clonality	Monoclonal Antibody
Clone	(#3D07)
Isotype	IgG1
Purification	Protein G chromatography
Antigen	Recombinant Mouse Mer extracellular domain
Formulation	lyophilized
Reconstitution buffer	PBS (sterile)

Reconstitution: Reconstitute the antibody with 200 µl sterile PBS and the final concentration is 500 µg/ml.

Stability: Lyophilized samples are stable for 2 years from date of receipt when stored at -70°C. Reconstituted antibody can be aliquoted and stored frozen at < -20 °C for at least for six months without detectable loss of activity.

Remarks: This antibody was selected for its ability to detect mouse Mer.

AVOID REPEATED FREEZE AND THAW CYCLES!

Applications

The antibody can be used within the following applications:

WB, IHC (P)

Recommended usage:

IHC (paraffine): 1:50 - 1:200

Western Blot: 1:100 - 1:1000

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!

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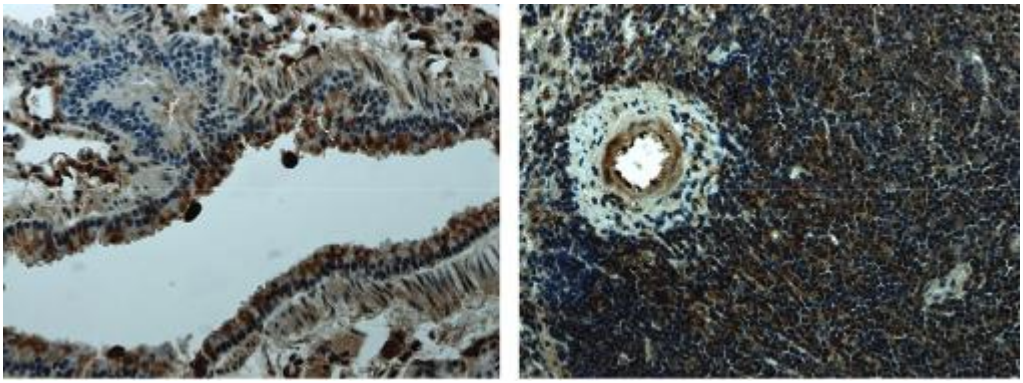
Application/Handling



Mer immunohistochemistry staining of paraffin sections of mouse lung and spleen tissues from LPS exposed animals.