



20180221BB

# Anti-Mouse Angiopoietin-3 (#2H34)

**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>103-M215</b>
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 mouse recombinant Angiopoietin-3. The IgG2 fraction of the culture supernatant was purified by Protein A/G affinity chromatography.

## Target Background

<b>Synonyms (Target):</b>	Angpt4; Ang3; Agpt4
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Mouse Angiopoietin3 (ANG3), is a secreted glycoprotein belonging to the angiopoietin family. It has the characteristic structural motifs of angiopoietins including the coiled coiled domain near the amino-terminus and a fibrinogen like domain at the C-terminus. Mouse ANG 3 cDNA encodes a 509 amino acid (aa) precursor protein with a 21 aa signal peptide. It shares 47%, 46% and 54% aa sequence identity with mouse ANG1, mouse ANG2 and human ANG4, respectively. Although the sequence homology is much higher between the human and mouse counterparts for ANG1 (97%) and ANG2 (85%), mouse ANG3 is believed to be an ortholog of human ANG4 based on chromosomal localization studies. Human ANG4 is highly expressed in lung and in cultured human umbilical vein endothelial cells (HUVECs). In contrast, mouse ANG3 is expressed in multiple mouse tissues. Human ANG4 is an agonist that can bind and activate Tie2, a receptor tyrosine kinase with immunoglobulin and epidermal growth factor homology domains expressed primarily on endothelial cells and early hematopoietic cells. Mouse ANG3 has been reported to be a Tie2 antagonist. It is likely that mouse ANG3, like ANG2, may exert agonist or antagonist activities depending on the cell context.

## Database References Target

<b>Protein RefSeq:</b>	NP_033771
<b>Uniprot ID:</b>	Q9WVH6
<b>mRNA RefSeq:</b>	NM_009641.1

## Product Specifications

<b>Host</b>	Rat
<b>Reactivity against</b>	Mouse
<b>Clonality</b>	Monoclonal Antibody
<b>Clone</b>	(#2H34)
<b>Isotype</b>	IgG2
<b>Purification</b>	Protein G chromatography
<b>Antigen</b>	recombinant mouse Angiopoietin-3
<b>Formulation</b>	lyophilized
<b>Reconstitution buffer</b>	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 detects mouse Angiopoietin-3 in Western blotting.

**AVOID REPEATED FREEZE AND THAW CYCLES!**

## Applications

The antibody can be used within the following applications:

WB, IHC

### Recommended usage:

Western Blot: 1:500 - 1000

IHC (Paraffin): 1:100-200

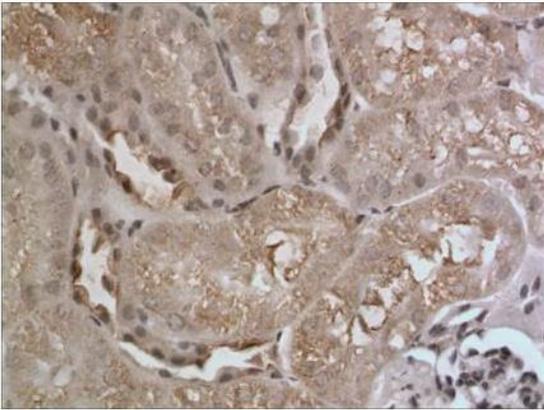
**NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!**



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### Handling/Applications



**Fig. 1:** The Kidney tissue samples from the Folic Acid-induced kidney injury model were fixed using 4% PFA at 4°C for overnight and embedded in paraffin. A 4 µm section was subjected to IHC (1:100-200).  
Antigen retrieval: PK (10 µg/ml)