

Product datasheet for **DM3530P**

Angpt4 Rat Monoclonal Antibody [Clone ID: 2H34]

Product data:

Product Type:	Primary Antibodies
Clone Name:	2H34
Applications:	WB
Recommended Dilution:	Western Blot: 1/500-1/1000.
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2
Clonality:	Monoclonal
Immunogen:	Mouse Recombinant Angiopoietin-3
Specificity:	This antibody detects Mouse Angiopoietin-3 in Western blotting. Other species not tested.
Formulation:	0.2 µm filtered PBS solution State: Purified State: Lyophilized purified IgG2 fraction of the Culture Supernatant
Reconstitution Method:	Restore with 200µl sterile PBS and the final concentration is 500µg/ml.
Purification:	Protein A/G affinity chromatography
Conjugation:	Unconjugated
Storage:	Prior to reconstitution store at 2-8°C. Following reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	angiopoietin 4
Database Link:	Entrez Gene 11602 Mouse Q9WVH6



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Background:

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.

Synonyms:

ANG-4, ANG4, ANG-3, ANG3, ANGPT4