

## Product datasheet for **DM3510B**

### TIE2 (TEK) Mouse Monoclonal Antibody [Clone ID: Cl.9]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	Cl.9
Applications:	ELISA, FC, WB
Recommended Dilution:	ELISA. Western Blot. FACS analysis and cell sorting: 2-5 µg/ml.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant human soluble extracellular TIE-2
Specificity:	The unconjugated antibody will detect native TIE-2/tek.
Formulation:	0.1M Tris-Cl, 0.2M NaCl, 0.02% NaN <sub>3</sub> , pH 7.4 containing 50x BSA as stabilizer Label: Biotin State: Lyophilized purified Ig
Reconstitution Method:	Reconstitute to a concentration of 50 µg/ml with sterile PBS solution containing 0.1% BSA
Purification:	Protein G chromatography
Conjugation:	Biotin
Storage:	Prior to reconstitution store at 2-8°C for one month or at -20°C for 6 month. Following reconstitution store the antibody 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:	TEK receptor tyrosine kinase
Database Link:	<a href="#">Entrez Gene 7010 Human</a> <a href="#">Q02763</a>



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**Background:**

TIE2 (tyrosine kinase with Ig and EGF homology domains 2) is expressed almost exclusively in endothelial cells in mice, rats and humans. This receptor possesses a unique extracellular domain containing two immunoglobulin like loops separated by three epidermal growth factor like repeats that are connected to three fibronectin type III like repeats. The ligand for the receptor is Angiopoietin 1. Defects in TIE2 are associated with inherited venous malformations; the TIE2 signaling pathway appears to be critical for endothelial cell smooth muscle cell communication in venous morphogenesis.

**Synonyms:**

TIE2, TIE-2, Angiopoietin-1 receptor, p140 TEK