

Product datasheet for **DM3509**

TIE2 (TEK) Mouse Monoclonal Antibody [Clone ID: Cl.2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	Cl.2
Applications:	ELISA, FC, IHC, WB
Recommended Dilution:	ELISA: 1-15 µg/ml. Western blot: 1-5 µg/ml. FACS and cell sorting: 2-5 µg/ml. Immunohistochemistry on Frozen Sections: 1-5 µg/ml.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant Human soluble extracellular domain of TIE-2.
Specificity:	This monoclonal antibody will detect native Human TIE-2/tek in ELISA experiments and on the surface of different Human cell types.
Formulation:	PBS, pH 7.4 without preservatives or stabilizers State: Purified State: Lyophilized purified IgG fraction
Reconstitution Method:	Restore in sterile water to a concentration of 0.1-1.0 mg/ml.
Purification:	Affinity Chromatography on Protein G
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:	TEK receptor tyrosine kinase
Database Link:	Entrez Gene 7010 Human Q02763



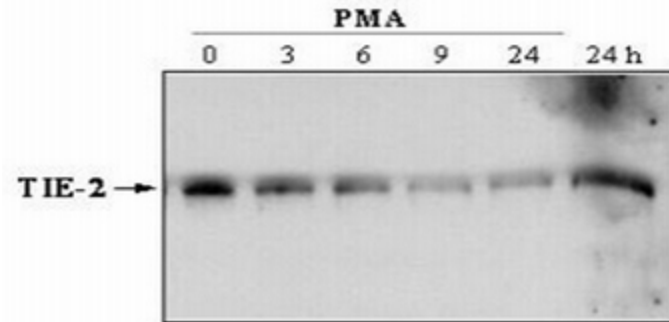
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Background:

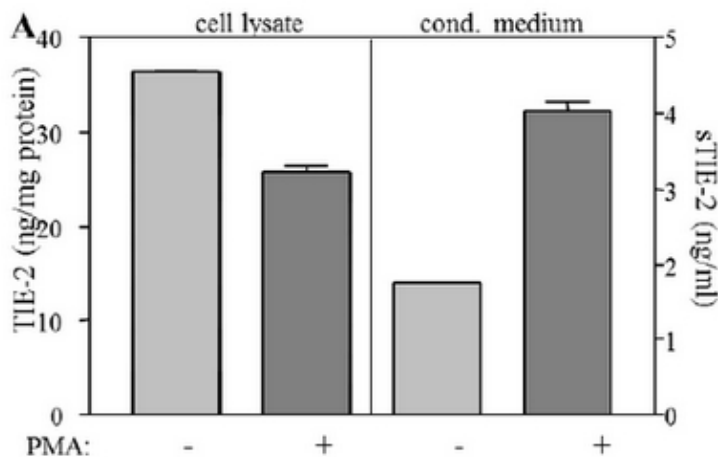
TIE2 (tyrosine kinase with Ig and EGF homology domains 2) is expressed almost exclusively in endothelial cells in mice, rats and humans. This receptor possesses a unique extracellular domain containing two immunoglobulin like loops separated by three epidermal growth factor like repeats that are connected 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:

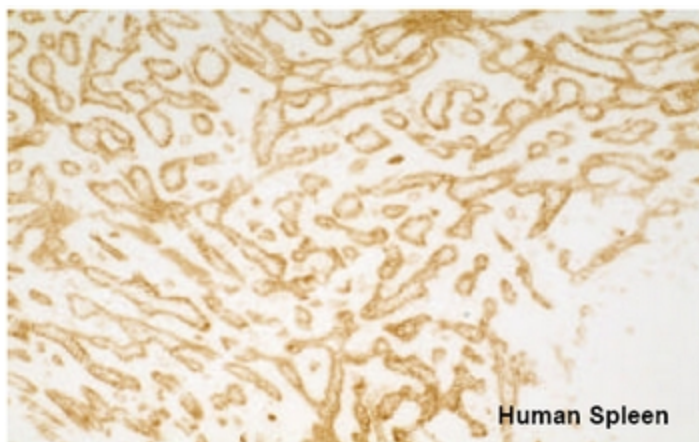
TIE2, TIE-2, Angiopoietin-1 receptor, p140 TEK

Product images:


Western Blot analysis for the presence of TIE-2 protein by immunoprecipitation using antibodies directed against the extracellular domain of Human TIE-2



Quantification of soluble and cellular TIE-2 by Sandwich ELISA: A. CM and cell lysates from HUVECs treated with PMA (25ng/ml) or left untreated were analysed by Sandwich ELISA for the concentrations of sTIE-2 or TIE-2. For Capturing anti-Human TIE-2 Cl.16 ([DM3511]) was used. for the detection a mixture of biotinylated anti-Human TIE-2 Cl.2 (B) and Cl.9 ([DM3510]).



Immunohistochemistry with cryo-sections using monoclonal anti-Human TIE-2 antibody