



TEK Polyclonal Antibody

Catalog Number PA5-28582

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human
Host/Isotope	Rabbit / IgG	Published species	Rat, Not Applicable
Class	Polyclonal	Tested Applications	Dilution *
Type	Antibody	Western Blot (WB)	1:500-1:3,000
Immunogen	Recombinant protein fragment corresponding to a region within amino acids 1 and 337 of Human TIE2	Published Applications	
Conjugate	Unconjugated	in situ PLA (PLA)	See 1 publications below
Form	Liquid	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Concentration	0.75 mg/mL		
Purification	Antigen affinity chromatography		
Storage buffer	PBS, pH 7, with 20% glycerol		
Contains	0.025% ProClin 300		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

Recommended positive controls: HUVEC. Predicted reactivity: Mouse (93%), Rat (93%), Bovine (94%). Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Background/Target Information

The TEK receptor tyrosine kinase is expressed almost exclusively in endothelial cells. TEK signaling appears to be critical for endothelial cell-smooth muscle cell communication in venous morphogenesis, and defects in TEK are associated with inherited venous malformations. The ligand angiopoietin-1 binds to this receptor and mediates a signaling pathway that functions in embryonic vascular development. Immunoblotting showed that TIE2 expression was increased by thyroid-stimulating hormone and agents that increased intracellular cAMP. HSCs expressing the receptor tyrosine kinase TIE2 are quiescent and antiapoptotic and comprise a side population of HSCs that adhere to osteoblasts in the bone marrow niche.

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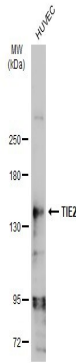
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TEK Antibody (PA5-28582) in WB

Western Blot using TEK Polyclonal Antibody (Product # PA5-28582). Whole cell extract (30 µg) was separated by 5% SDS-PAGE, and the membrane was blotted with TEK Polyclonal Antibody (Product # PA5-28582) diluted at 1:500. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



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PubMed References For TEK Polyclonal Antibody

1 in situ PLA References

Species / Dilution	Summary
	PA5-28582 was used in Proximity Ligation Assay to show that PitNET cells express a functional TIE2 receptor and secrete bioactive ANGPT2, which promotes, besides angiogenesis, tumor cell growth in an autocrine and paracrine fashion.
Rat / Not Cited	EMBO molecular medicine ( 2022; 14: ) "Angpt2/Tie2 autostimulatory loop controls tumorigenesis." Author(s):Karabid NM,Wiedemann T,Gulde S,Mohr H,Segaran RC,Geppert J,Rohm M,Vitale G,Gaudenzi G,Dicitore A, Ankerst DP,Chen Y,Braren R,Kaissis G,Schilling F,Schillmaier M,Eisenhofer G,Herzig S,Roncaroli F,Honegger JB, Pellegata NS PubMed Article URL: <a href="http://dx.doi.org/10.15252/emmm.202114364">http://dx.doi.org/10.15252/emmm.202114364</a>

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