

Human EG-VEGF/PK1 Biotinylated Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: BAF1209

DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human EG-VEGF/PK1 in ELISAs and Western blots. In sandwich immunoassays, approximately 80% cross-reactivity with recombinant rat EG-VEGF is observed and 60% cross-reactivity with recombinant mouse EG-VEGF is observed.		
Source	Polyclonal Goat IgG		
Purification	Antigen Affinity-purified		
Immunogen	Mouse myeloma cell line NS0-derived recombinant human EG-VEGF/PK1 (R&D Systems, Catalog # 1209-EV) Ala20-Phe105 Accession # P58294		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.		
APPLICATIONS			
Please Note: Optimal diluti	ons should be determined by each laboratory for each applic	cation. General Protocols are available in the Technical Information section on our website.	
	Recommended Concentration	Sample	
Western Blot	0.1 μg/mL	Recombinant Human EG-VEGF/PK1 (Catalog # 1209-EV)	
Human EG-VEGF/PK	1 Sandwich Immunoassay	Reagent	
ELISA Capture	2-8 μg/mL	Human EG-VEGF/PK1 Antibody (Catalog # MAB12091)	

PREPARATION AND STORAGE		
Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.	
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.	
	 12 months from date of receipt, -20 to -70 °C as supplied. 	
	 1 month, 2 to 8 °C under sterile conditions after reconstitution. 	
	 6 months, -20 to -70 °C under sterile conditions after reconstitution. 	

Human EG-VEGF/PK1 Biotinylated Antibody (Catalog # BAF1209)

Recombinant Human EG-VEGF/PK1 (Catalog # 1209-EV)

BACKGROUND

ELISA Detection

Standard

Endocrine gland-derived vascular endothelial growth factor (EG-VEGF), also called prokineticin 1 (PK1), is a member of the prokineticin family of secreted proteins that share a common structural motif containing ten conserved cysteine residues that form five pairs of disulfide bonds (1, 2). Members of this family include the mammalian EG-VEGF/PK1 and PK2, as well as the venom protein A (VPRA) from the venom of black mamba snake and the frog Bombina variegata, Bv8 (1). Human EG-VEGF precursor is a 105 amino acid (aa) residue protein with a 19 aa signal peptide that is cleaved to yield a 86 aa mature protein (1, 2). EG-VEGF is expressed in multiple tissues including the gastrointestinal (GI) tract and steroidogenic glands (testis, ovary, placenta and adrenal glands). EG-VEGF has been shown to potently stimulate the contraction of GI smooth muscle. In addition, EG-VEGF is a tissue-specific angiogenic factor that exhibits biological activities similar to that of VEGF on select cells. It induces the proliferation, migration, and fenestration in cultured endocrine gland-derived capillary endothelial cells. EG-VEGF binds to and activates two closely related G protein-coupled receptors, EG-VEGF/PK1-R1 and EG-VEGF/PK2-R2 (3, 4). Activation of the receptors leads to stimulation of phosphoinositide turnover and activation of p44/p42 MAP kinase signaling pathways.

References:

- 1. Li, M. et al. (2001) Mol. Pharmacol. 59:692.
- LeCouter, J. et al. (2001) Nature 412:877.
- Lin, D. et al. (2002) J. Biol. Chem. 277:19276.
- Masuda, Y. et al. (2002) Biochem. Biophys. Res. Commun. 293:396.

0.1-0.4 µg/mL

