Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF1914

DESCRIPTION

Species Reactivity	Human	
Specificity	Detects human Kell in direct ELISAs and Western blots. In direct ELISAs, approximately 25% cross-reactivity with recombinant mouse Kell is observed.	
Source	Polyclonal Goat IgG	
Purification	Antigen Affinity-purified	
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Kell aa 68-732	
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Human Kell
Flow Cytometry	2.5 µg/10 ⁶ cells	Human whole blood
Immunoprecipitation	25 μg/mL	Conditioned cell culture medium spiked with Recombinant Human Kell, see our available Western blot detection antibodies
CyTOF-ready	Ready to be labeled with conjugation.	d using established conjugation methods. No BSA or other carrier proteins that could interfere

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. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C	
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. 	

BACKGROUND

Kell, a type II membrane glycoprotein, is linked through a single disulfide bond to XK, a putative membrane transporter. The two proteins constitute the Kell blood group antigens (1). Kell is a zinc endopeptidase of the neprilysin (NEP) family which also includes endothelin converting enzymes (ECE-1 and ECE-2), PEX, XCE, DINE and several NEP-like proteins (2). It has been shown to cleave big endothelin-3 (ET-3) at Trp21-Ile22, yielding ET-3, and to a much lesser extent, big ET-1 and big ET-2 at Trp21-Val22, yielding ET-1 and ET-2 (3). Several different molecular defects cause the Kell null phenotype, which has no obvious clinical outcome (4).

References:

- 1. Lee, S. et al. (2000) Transfus. Med. Rev. 14:93.
- 2. Turner, A.J. et al. (2001) BioEssays. 23:261.
- 3. Lee, S. et al. (1999) Blood 94:1440.
- 4. Lee, S. et al. (2001) J. Biol. Chem. 276:27281.

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