

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF3699

DESCRIPTION

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Species Reactivity	Human
Specificity	Detects human Xg in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Xg Gln22-Lys142 Accession # P55808
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.

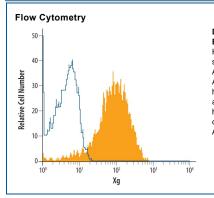
 Recommended Concentration
 Sample

 Western Blot
 0.1 µg/mL
 Recombinant Human Xg

 Flow Cytometry
 0.25 µg/10<sup>6</sup> cells
 See Below

 CyTOF-ready
 Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.

DATA



Detection of Xg in Human Erythrocytes by Flow Cytometry. Human blood erythrocytes were stained with Goat Anti-Human Xg Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3699, filed histogram) or isotype control antibody (Catalog # AB-108-C, open histogram), followed by Phycoerythrinconjugated Anti-Goat IgG Secondary Antibody (Catalog # F0107).

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.
	<ul> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>1 month. 2 to 8 °C under sterile conditions after reconstitution.</li> </ul>

• 6 months, -20 to -70 °C under sterile conditions after reconstitution.

## BACKGROUND

Xg, also known as PBDX (pseudoautosomal boundary divided on the X chromosome), is a type I transmembrane glycoprotein that belongs to the CD99 family. It is an erythrocyte membrane protein that is used as the basis for the Xg blood group system. Mature Xg is a 26 kDa glycoprotein that consists of a 121 aa extracellular domain, a transmembrane segment, and a 17 aa cytoplasmic tail. Xg isoforms with either a 15 aa insertion or a deletion of nearly the entire ECD have been reported. Within the extracellular domain, human Xg shares 100% aa sequence identity with mouse Xg.

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