

## GYPA/CD235a Protein, Mouse (HEK293, Fc)

Cat. No.:	HY-P77956
Synonyms:	Glycophorin-A; PAS-2; CD235a; glycophorin Erik; glycophorin Mil; glycophorin Milll; glycophorin MiV; glycophorin MiX; glycophorin SAT; GPA; GP Erik; GpMiilll; GPSAT; GYPA; HGpMiilll; HGpMiV; HGpMiX; HGpMiXI; HGpSta(C); MNS; CD235a; MN
Species:	Mouse
Source:	HEK293
Accession:	P14220 (M1-V108)
Gene ID:	14934
Molecular Weight:	68-75 kDa

### PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

### DESCRIPTION

#### Background

GYPA, a crucial component of the ankyrin-1 complex, intricately participates in maintaining the stability and shape of the erythrocyte membrane. Serving as the major intrinsic membrane protein of erythrocytes, GYPA plays a vital role in the structural integrity and functionality of these blood cells. The N-terminal glycosylated segment, projecting outside the erythrocyte membrane, hosts MN blood group receptors, underscoring its involvement in blood group determinants. Additionally, GYPA is integral for the proper function of SLC4A1, and its presence is essential for the high activity of SLC4A1. Furthermore, GYPA serves as a receptor for influenza virus, Plasmodium falciparum erythrocyte-binding antigen 175 (EBA-175), and Hepatitis A virus (HAV). Notably, it forms homodimers and is a key constituent of the ankyrin-1 complex, working in concert with other proteins such as ANK1, RHCE, RHAG, SLC4A1, EPB42, GYPB, and AQP1 to maintain erythrocyte membrane architecture. The interaction with SLC4A1 results in the formation of a heterotetramer, highlighting the collaborative role of GYPA in the molecular organization of erythrocyte structures.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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