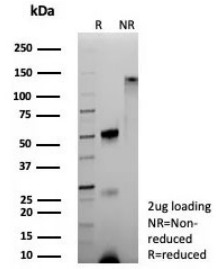
Recombinant Hemoglobin alpha Antibody / HBA [clone HBA/9193R] (V5569)

Catalog No.	Formulation	Size
V5569-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5569-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5569SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	HBA/9193R
Purity	Protein A/G affinity
UniProt	P69905
Localization	Extracellular space
Applications	Immunohistochemistry (FFPE): 1-2ug/ml
Limitations	This recombinant Hemoglobin alpha antibody is available for research use only.



SDS-PAGE analysis of purified, BSA-free recombinant Hemoglobin alpha antibody (clone HBA/9193R) as confirmation of integrity and purity.

Description

Hemoglobin (Hgb) is coupled to four iron-binding, methene-linked tetrapyrrole rings (heme). The alpha and beta globin

loci determine the basic Hgb structure. The globin portion of Hgb consists of two alpha chains and two beta chains arranged in pairs forming a tetramer. Each of the four globin chains covalently associates with a heme group. The bonds between alpha and beta chains are weaker than between similar globin chains, thereby forming a cleavage plane that is important for oxygen binding and release. High affinity for oxygen occurs upon relaxation of the alpha1-beta2 cleavage plane. When the two alpha1-beta2 interfaces are closely bound, Hgb has a low affinity for oxygen. Hb A, which contains two alpha chains plus two beta chains, comprises 97% of total circulating hemoglobin. The remaining 3% of total circulating hemoglobin is comprised of Hb A-2, which consists of two alpha chains plus two delta chains, and fetal hemoglobin (Hb F), which consists of two alpha chains together with two gamma chains.

For additional information on alpha-globin biology and broader tissue and species validation, visit our Hemoglobin Alpha Antibody / HBA1/2 Antibody page.

Application Notes

Optimal dilution of the recombinant Hemoglobin alpha antibody should be determined by the researcher.

Immunogen

A recombinant fragment (within amino acids 1-100) of human HBA2 protein was used as the immunogen for the recombinant Hemoglobin alpha antibody.

Storage

Aliquot the recombinant Hemoglobin alpha antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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