

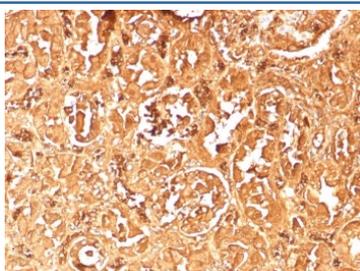
## Recombinant HBA Antibody / Hemoglobin alpha [clone rHBA/9167] (V5570)

Catalog No.	Formulation	Size
V5570-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5570-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5570SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

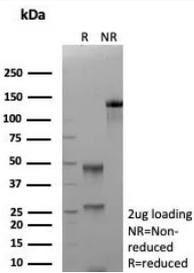
Recombinant **MOUSE MONOCLONAL**

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<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Clonality</b>	Recombinant Mouse Monoclonal
<b>Isotype</b>	Mouse IgG2b, kappa
<b>Clone Name</b>	rHBA/9167
<b>Purity</b>	Protein A/G affinity
<b>UniProt</b>	P69905
<b>Localization</b>	Extracellular space
<b>Applications</b>	Immunohistochemistry (FFPE) : 1-2ug/ml
<b>Limitations</b>	This recombinant HBA antibody is available for research use only.



IHC staining of FFPE human kidney tissue with recombinant HBAa antibody (clone rHBA/9167). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free recombinant HBA antibody (clone rHBA/9167) 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.

## Application Notes

Optimal dilution of the recombinant HBA 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 HBA antibody.

## Storage

Aliquot the recombinant HBA antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.