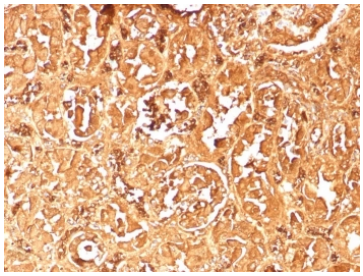
HBA Antibody rHBA/9167 / Alpha-Globin Antibody [clone rHBA/9167] (V5570)

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

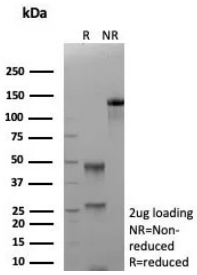
Recombinant MOUSE MONOCLONAL

Bulk quote request

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



HBA Antibody rHBA/9167 in Human Kidney IHC. Immunohistochemistry testing of clone rHBA/9167 in FFPE human kidney tissue. Heat-induced epitope retrieval was performed by boiling tissue sections in pH 9, 10 mM Tris with 1 mM EDTA for 20 min followed by cooling prior to staining. Strong alpha-globin immunoreactivity is observed predominantly in erythrocytes within vascular spaces of the tested kidney tissue.



Purified HBA Antibody rHBA/9167 SDS-PAGE. Electrophoretic analysis of purified, BSA-free clone rHBA/9167 by SDS-PAGE demonstrates the protein profile of the recombinant mouse monoclonal antibody and provides confirmation of antibody integrity and purity.

Description

HBA Antibody rHBA/9167 / Alpha-Globin Antibody recognizes alpha-globin, one of the principal protein components of hemoglobin. In humans, alpha-globin is encoded by the closely related HBA1 and HBA2 genes located within the alpha-globin gene cluster on chromosome 16. The proteins encoded by these genes have identical amino acid sequences and associate with beta-like globin chains to form functional hemoglobin tetramers responsible for oxygen transport in erythrocytes.

Alpha-globin participates in several developmentally regulated forms of hemoglobin. In adults, it associates primarily with beta-globin to form hemoglobin A, the predominant form of circulating hemoglobin, and with delta-globin to form the minor HbA2 fraction. During fetal development, alpha-globin associates with gamma-globin to form fetal hemoglobin. Coordinated expression of these globin chains is an essential feature of normal erythroid differentiation and red blood cell function.

Balanced globin-chain synthesis is important for hemoglobin stability and erythrocyte development. Decreased alpha-globin production is associated with alpha-thalassemia, while accumulation of excess unpaired alpha-globin contributes to erythroid pathology in beta-thalassemia. Alpha-globin is consequently studied in research involving erythropoiesis, hemoglobin switching, red blood cell development and inherited hemoglobin disorders.

Clone rHBA/9167 is a recombinant mouse monoclonal antibody generated against a recombinant fragment from within amino acids 1-100 of human HBA2. Its recombinant production provides a defined monoclonal reagent for investigating alpha-globin expression. NSJ Bioreagents provides this HBA Antibody for research into erythroid biology, hemoglobin expression and red blood cell development. An Alpha-Globin Antibody can support studies of hemoglobin biology and erythroid differentiation.

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 HBA Antibody rHBA/9167 / Alpha-Globin 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 rHBA/9167.

Storage

Aliquot the HBA Antibody rHBA/9167 and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

HBA antibody, alpha-globin antibody, hemoglobin alpha chain antibody, hemoglobin subunit alpha antibody, HBA1 antibody, HBA2 antibody

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