

## Hemoglobin subunit alpha Rabbit mAb

Catalog No: #49097

Package Size: #49097-1 50ul #49097-2 100ul

Orders: order@signalwayantibody.com

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## Description

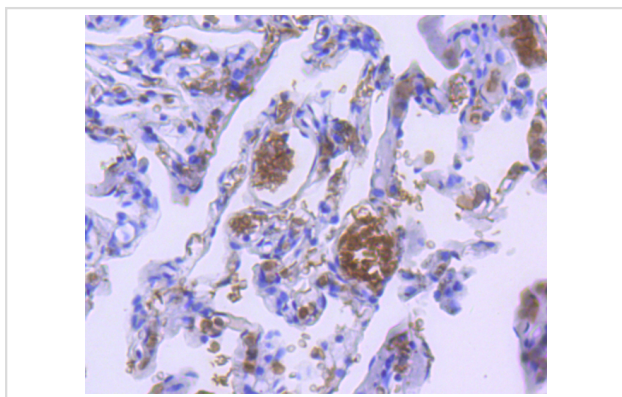
Product Name	Hemoglobin subunit alpha Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SN70-09
Purification	ProA affinity purified
Applications	WB, IHC, IP
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Other Names	Alpha 1 globin antibody Alpha globin antibody Alpha one globin antibody Alpha-globin antibody HBA_HUMAN antibody HBA1 antibody HBA2 antibody Hemoglobin alpha 1 antibody Hemoglobin alpha 1 chain antibody Hemoglobin alpha 1 globin chain antibody Hemoglobin alpha 2 antibody Hemoglobin alpha chain antibody Hemoglobin subunit alpha antibody MGC126895 antibody MGC126897 antibody
Accession No.	Swiss-Prot#:P69905
Uniprot	P69905
GeneID	3039;3040;
Calculated MW	15 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

## Application Details

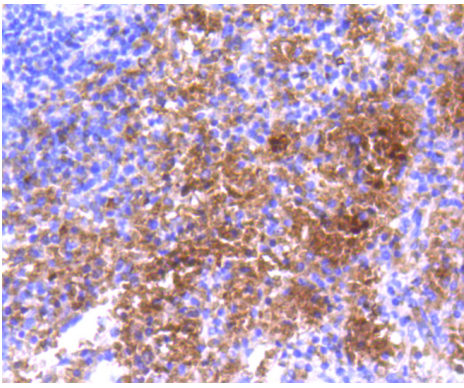
WB: 1:1,000

IHC: 1:10-1:50

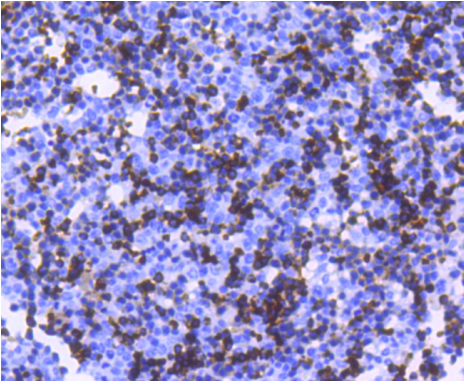
## Images



Immunohistochemical analysis of paraffin-embedded human lung tissue using anti-Hemoglobin subunit alpha antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-Hemoglobin subunit alpha antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded mouse embryo tissue using anti-Hemoglobin subunit alpha antibody. Counter stained with hematoxylin.

## Background

Hemoglobin (Hgb) is coupled to four iron-binding, methene-linked tetrapyrrole rings (heme). The  $\alpha$  (16p13.3; 5'- $\zeta$ -pseudo-pseudo  $\alpha$ 2-pseudo  $\alpha$ 1- $\alpha$ 2- $\alpha$ 1- $\gamma$ 1-3') and  $\beta$  (11p15.5) globin loci determine the basic hemoglobin structure. The globin portion of hemoglobin 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  $\alpha$ 1- $\beta$ 2 cleavage plane. When the two  $\alpha$ 1- $\beta$ 2 interfaces are closely bound, hemoglobin 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.

## References

Note: This product is for in vitro research use only