Data Sheet (Cat.No.TMAC-01795)

Anti-HBA1 Antibody (4N481)

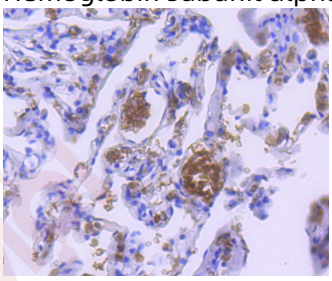
Product Details

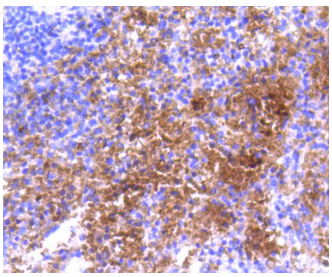
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 15 kDa.
Clone:	4N481
Purification:	ProA affinity purified

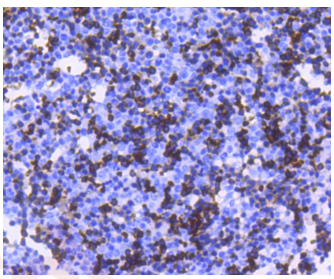
Applications

Verified Activity:

1. Immunohistochemical analysis of paraffin-embedded human lung tissue using anti-Hemoglobin subunit alpha antibody. Counter stained with hematoxylin.
2. Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-Hemoglobin subunit alpha antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded mouse embryo tissue using anti-Hemoglobin subunit alpha antibody. Counter stained with hematoxylin.







Application:	IHC,IP,WB
Recommended	WB: 1:1000; IHC: 1:10-50

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: P69905

Synonyms: Hemoglobin alpha chain;Hba;Hba-a1;Alpha-globin;Hemoglobin subunit alpha

Research Background

Hemoglobin (Hgb) is coupled to four iron-binding, methene-linked tetrapyrrole rings (heme). The α (16p13.3; 5'-ζ-pseudoz-pseudo α2-pseudo α1-α2-α1-?1-3') and β (11p15.5) globin loci determine the basic hemoglobin structure. The globin portion of hemoglobin consists of two α chains and two β chains arranged in pairs forming a tetramer. Each of the four globin chains covalently associates with a heme group. The bonds between α and β 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 α1-β2 cleavage plane. When the two α1-β2 interfaces are closely bound, hemoglobin has a low affinity for oxygen. Hb A, which contains two α chains plus two β chains, comprises 97% of total circulating hemoglobin. The remaining 3% of total circulating hemoglobin is comprised of Hb A-2, which consists of two α chains plus two δ chains, and fetal hemoglobin (Hb F), which consists of two α chains together with two γ chains.

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