Hemoglobin subunit alpha (HBA1) Rabbit mAb

Catalog NO.: A9293 Recombinant 2 Publications

Basic Information

Observed MW
11kDa

Calculated MW
15kDa

Category
Monoclonal Antibodies

Applications
WB, IF-P, IHC-P, ELISA

Cross-Reactivity
Human, Mouse, Rat

Conjugation
Unconjugated

Clone number
ARC1510

Background

The human alpha globin gene cluster located on chromosome 16 spans about 30 kb and includes seven loci: 5'- zeta - pseudozeta - mu - pseudoalpha-1 - alpha-2 - alpha-1 - theta - 3'. The alpha-2 (HBA2) and alpha-1 (HBA1) coding sequences are identical. These genes differ slightly over the 5' untranslated regions and the introns, but they differ significantly over the 3' untranslated regions. Two alpha chains plus two beta chains constitute HbA, which in normal adult life comprises about 97% of the total hemoglobin; alpha chains combine with delta chains to constitute HbA-2, which with HbF (fetal hemoglobin) makes up the remaining 3% of adult hemoglobin. Alpha thalassemias result from deletions of each of the alpha genes as well as deletions of both HBA2 and HBA1; some nondeletion alpha thalassemias have also been reported.

Recommended Dilutions

WB	1:1000 - 1:6000
IF-P	1:100 - 1:400
IHC-P	1:200 - 1:2000

ELISA
Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
3039

Swiss Prot
P69905

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms
HBH; ECYT7; HBA-T3; METHBA; Hemoglobin subunit alpha (HBA1)

Contact

Product Information

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service@abclonal.com
www.abclonal.com

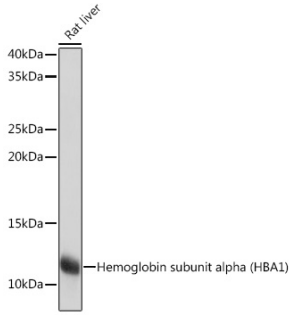
Source
Rabbit

Isotype
IgG

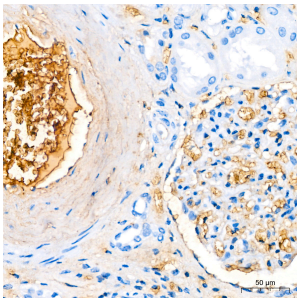
Purification
Affinity purification

Storage
Store at -20°C. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

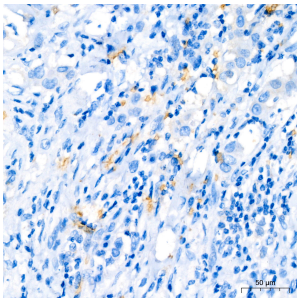
Validation Data



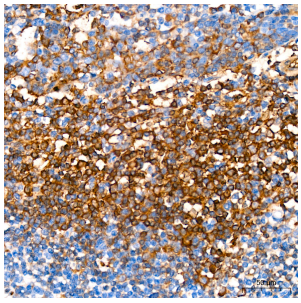
Western blot analysis of lysates from Rat liver using Hemoglobin subunit alpha (HBA1) Rabbit mAb (A9293) at 1:1000 dilution incubated overnight at 4°C.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1s.



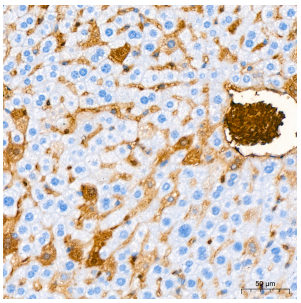
Immunohistochemistry analysis of paraffin-embedded Human kidney tissue using Hemoglobin subunit alpha (HBA1) Rabbit mAb (A9293) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.

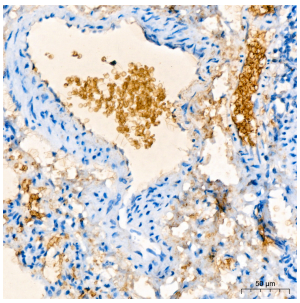


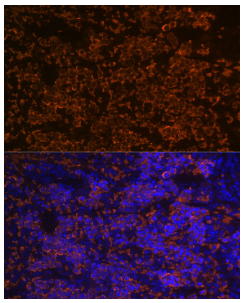
Immunohistochemistry analysis of paraffin-embedded Human breast cancer tissue using Hemoglobin subunit alpha (HBA1) Rabbit mAb (A9293) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human tonsil tissue using Hemoglobin subunit alpha (HBA1) Rabbit mAb (A9293) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.





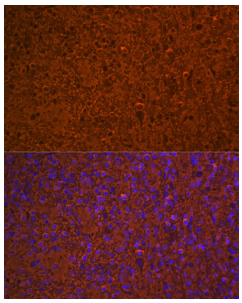


Immunohistochemistry analysis of paraffin-embedded Mouse liver tissue using Hemoglobin subunit alpha (HBA1) Rabbit mAb (A9293) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.

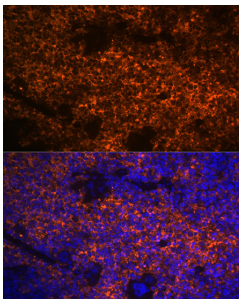
Immunohistochemistry analysis of paraffin-embedded Rat lung tissue using Hemoglobin subunit alpha (HBA1) Rabbit mAb (A9293) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.

Immunofluorescence analysis of paraffin-embedded rat spleen using Hemoglobin subunit alpha (HBA1) Rabbit mAb (A9293) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

Validation Data



Immunofluorescence analysis of paraffin-embedded human spleen using Hemoglobin subunit alpha (HBA1) Rabbit mAb (A9293) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of paraffin-embedded mouse spleen using Hemoglobin subunit alpha (HBA1) Rabbit mAb (A9293) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

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