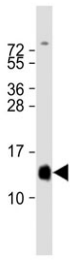
HBA2 Antibody / Hemoglobin subunit alpha 2 (F55067)

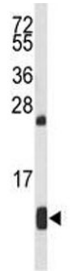
Catalog No.	Formulation	Size
F55067-0.2ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.2 ml
F55067-0.05ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.05 ml

Bulk quote request

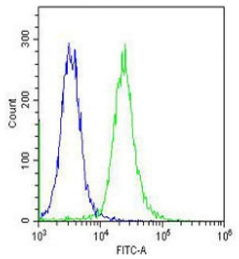
Availability	1-3 business days
Species Reactivity	Human, Mouse
Format	Purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity purified
UniProt	P69905
Localization	Cytoplasm
Applications	Western Blot : 1:1000-1:2000 Flow Cytometry : 1:25 per million cells in 0.1ml
Limitations	This HBA2 antibody is available for research use only.



Western blot testing of human fetal heart tissue lysate with HBA2 antibody. Predicted molecular weight ~15 kDa.



Western blot testing of mouse liver tissue lysate with HBA2 antibody. Predicted molecular weight ~15 kDa.



Flow cytometry testing of fixed and permeabilized human K562 cells with HBA2 antibody; Blue=isotype control, Green= HBA2 antibody.

Description

HBA2 is a key component of hemoglobin, the protein responsible for transporting oxygen from the lungs to the rest of the body. Together with HBA1, this protein forms a tetramer that binds to oxygen molecules and carries them through the bloodstream. While HBA1 is typically more abundant in adults, HBA2 is essential during fetal development and plays a vital role in ensuring the proper oxygenation of tissues in the growing fetus. Research has shown that mutations in the HBA2 gene can lead to various blood disorders, such as alpha-thalassemia, a condition characterized by reduced production of alpha-globin chains.

Application Notes

Titration of the HBA2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 100-128 from the human protein was used as the immunogen for the HBA2 antibody.

Storage

Aliquot the HBA2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.