Anti-FABP4 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R015612

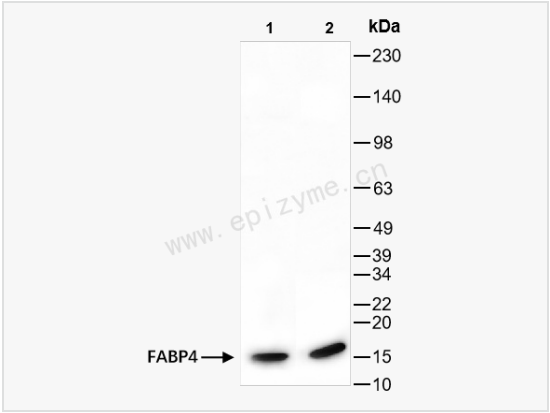
Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	35Q49K98
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human FABP4
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-FABP4 Rabbit mAb [35Q49K98] is for research use only and not for use in diagnostic or therapeutic procedures.

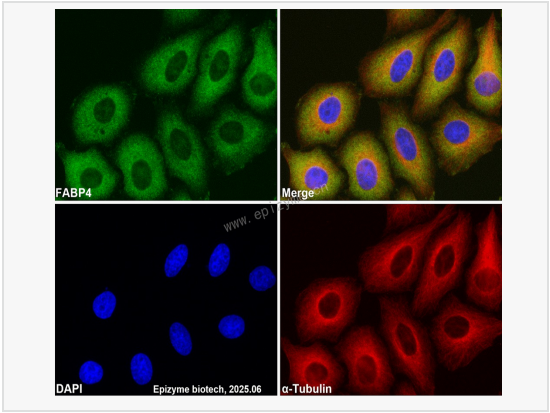
Protein Information

Synonyms	3T3-L1 lipid-binding protein; 422/aP2; A-FABP; adipocyte; Adipocyte lipid binding protein; Adipocyte lipid-binding protein; Adipocyte protein AP2; Adipocyte-type fatty acid-binding protein; AFABP; ALBP; ALBP/Ap2; aP2; Epididymis secretory protein Li 104; FABP; FABP4; FABP4_HUMAN; Fatty acid binding protein 4 adipocyte; Fatty acid binding protein 4; Fatty acid binding protein adipocyte; Fatty acid-binding protein 4; Fatty acid-binding protein; HEL S 104; Lbpl; Myelin P2 protein homolog; P15; P2 adipocyte protein; Protein 422.
Calculated MW	Calculated MW: 15 kDa; Observed MW: 15 kDa
Uniprot ID	P15090
Gene ID	2167
Background	FABP4 encodes the fatty acid binding protein found in adipocytes. Fatty acid binding proteins are a family of small, highly conserved, cytoplasmic proteins that bind long-chain fatty acids and other hydrophobic ligands. It is thought that FABPs roles include fatty acid uptake, transport, and metabolism. [provided by RefSeq, Jul 2008]
Cellular Location	Nucleus matrix. Cytoplasm > cytoskeleton > spindle. Midbody. Chromosome. Not present in the nucleolus. In early mitosis, associated with the mitotic spindle, in anaphase, localized to the spindle midzone and, in telophase and cytokinesis, to the midbody. In late cytokinesis, found in the center of the midbody. Associated with chromosomes at all stages of mitosis.
Tissue Location	Highly expressed in hematopoietic tissues, fetal liver, spleen, thymus and adult thymus and bone marrow. Lower levels are found in heart, testis, kidney, colon and lung.

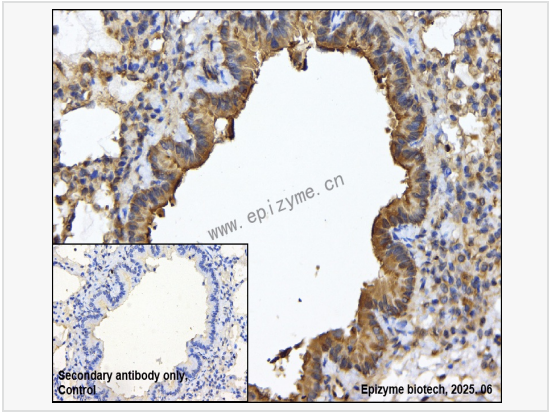
Validation Images



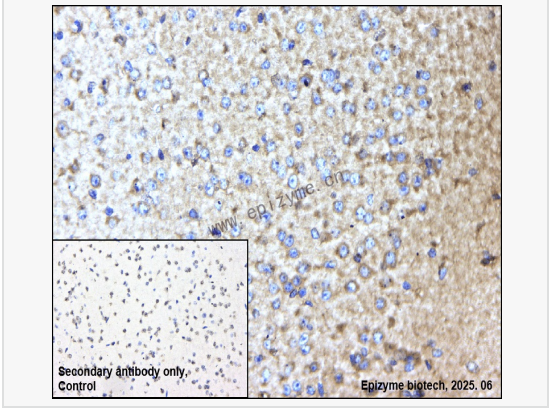
Western Blot - Anti-FABP4 Rabbit mAb [35Q49K98]
All lanes: R015612 at 1:1,000 dilution
Lane 1: Mouse heart whole tissue lysates
Lane 2: Rat heart whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 15 kDa
Observed band size: 15 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-FABP4 Rabbit mAb [35Q49K98]
Sample: HeLa cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R015612 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).



Immunohistochemistry - Anti-FABP4 Rabbit mAb [35Q49K98]
Sample: Paraformaldehyde-fixed, paraffin embedded rat lung tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015612 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-FABP4 Rabbit mAb [35Q49K98]
Sample: Paraformaldehyde-fixed, paraffin embedded mouse brain tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015612 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.