

FABP5 Rabbit pAb

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Catalog # AP58006

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q01469
Reactivity	Mouse
Predicted	Rat, Pig, Human, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	15164
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Fatty Acid Binding Protein 5
Epitope Specificity	21-120/135
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes the fatty acid binding protein found in epidermal cells, and was first identified as being upregulated in psoriasis tissue. Fatty acid binding proteins are a family of small, highly conserved, cytoplasmic proteins that bind long-chain fatty acids and other hydrophobic ligands. FABPs may play roles in fatty acid uptake, transport, and metabolism. Polymorphisms in this gene are associated with type 2 diabetes. The human genome contains many pseudogenes similar to this locus.[provided by RefSeq, Feb 2011].

Additional Information

Gene ID	2171
Other Names	Fatty acid-binding protein 5, Epidermal-type fatty acid-binding protein, E-FABP, Fatty acid-binding protein, epidermal, Psoriasis-associated fatty acid-binding protein homolog, PA-FABP, FABP5 (HGNC:3560)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

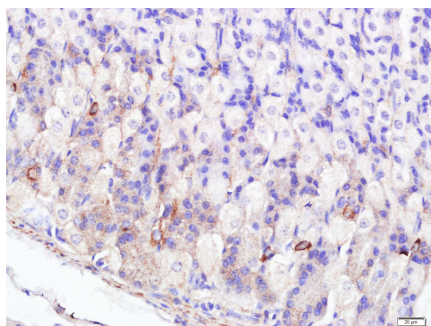
Protein Information

Name	FABP5 (HGNC:3560)
Function	Intracellular carrier for long-chain fatty acids and related active lipids, such as endocannabinoids, that regulate the metabolism and actions of the ligands they bind. In addition to the cytosolic transport, selectively delivers specific fatty acids from the cytosol to the nucleus, wherein they activate nuclear receptors (PubMed: 21395585 , PubMed: 22170058). Delivers retinoic acid to the nuclear receptor peroxisome proliferator-activated receptor delta; which promotes proliferation and survival. May also serve as a synaptic carrier of endocannabinoid at central synapses and thus controls retrograde endocannabinoid signaling. Modulates inflammation by regulating PTGES induction via NF-kappa-B activation, and prostaglandin E2 (PGE2) biosynthesis during inflammation (By similarity). May be involved in keratinocyte differentiation (PubMed: 8092987).
Cellular Location	Cytoplasm. Nucleus Synapse {ECO:0000250 UniProtKB:Q05816}. Postsynaptic density {ECO:0000250 UniProtKB:Q05816}. Secreted {ECO:0000250 UniProtKB:Q05816}. Note=Localizes primarily to the cytoplasm. Upon certain ligand binding, a conformation change exposes a nuclear localization motif and the protein is transported into nucleus (PubMed:24692551). Secreted by astrocytes, but not by neurons (By similarity). {ECO:0000250 UniProtKB:Q05816, ECO:0000269 PubMed:24692551}
Tissue Location	Keratinocytes; highly expressed in psoriatic skin (PubMed:8092987). Expressed in brain gray matter (PubMed:21395585)

Background

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Images



Paraformaldehyde-fixed, paraffin embedded (mouse stomach); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (FABP5) Polyclonal Antibody, Unconjugated (AP58006) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

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