

FABP5 Rabbit pAb

Catalog # AP93292

Product Information

Application	WB, IHC-P, IF, ICC
Primary Accession	Q01469
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Polyclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Immunogen	Recombinant protein of human FABP5 (NP_001435.1).
Purification	Affinity Purified
Calculated MW	15164

Additional Information

Gene ID	2171
Other Names	EFABP; KFABP; E-FABP; PAFABP; PA-FABP
Dilution	WB~~1:1000 IHC-P~~N/A IF~~1:50~200 ICC~~N/A
Format	Liquid in PBS with 0.09% Sodium azide,50% glycerol,pH7.3.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

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

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.

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