

CPTC-FABP4-1 (CAB080201)

Uniprot ID: P15090

Protein name: FABP4_HUMAN

Full name: Fatty acid-binding protein, adipocyte

Function: Lipid transport protein in adipocytes. Binds both long chain fatty acids and retinoic acid. Delivers long-chain fatty acids and retinoic acid to their cognate receptors in the nucleus.

Subcellular location:

Cytoplasm (*by similarity*)

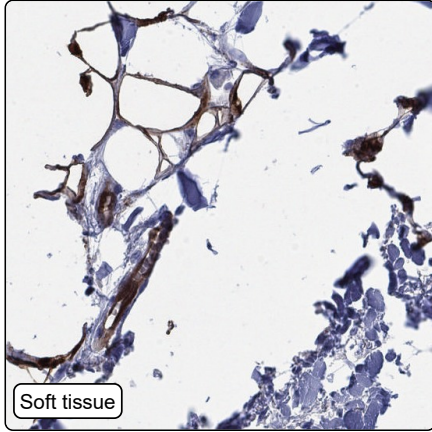
Nucleus (*by similarity*)

NOTE: Depending on the nature of the ligand, a conformation change exposes a nuclear localization motif and the protein is transported into the nucleus. Subject to constitutive nuclear export.

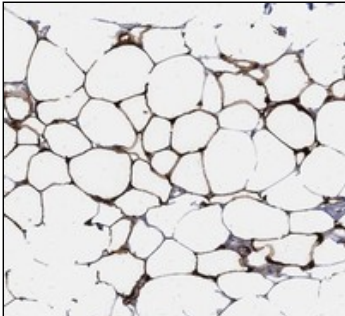
Protein existence: Experimental evidence at protein level

Comment:

Immunohistochemistry

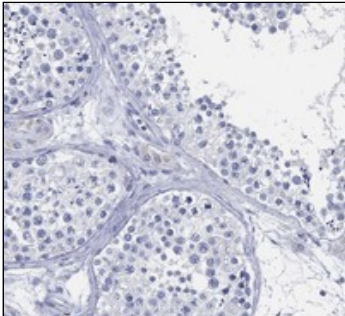


HIGH EXPRESSION



Soft tissue 1
3787.446836 nTPM

LOW EXPRESSION



Testis
1.104913 nTPM

IHC protocol:	HIER pH6, Dilution 1:500
IHC test staining:	Cytoplasmic positivity in adipocytes.
Literature conformance:	Consistent with extensive gene/protein characterization data
Literature significance:	
RNA similarity:	Medium consistency between antibody staining and RNA expression data
RNA tissue specificity:	Group enriched (adipose tissue,breast)
RNA tissue distribution:	Detected in many
IHC Sibling similarity:	Other antibody shows similar IHC staining pattern
Reliability score:	Supported
APE summary:	Selective cytoplasmic expression in adipocytes.
APE explanatory sentences:	High consistency between antibody staining and RNA expression data.
Orthogonal validation:	Yes
Independent validation:	No
IHC Annotation summary:	Moderate to strong cytoplasmic positivity was observed in adipocytes and gastric glandular cells. Most remaining normal cells were negative. Moderate to strong cytoplasmic positivity was observed in a few cases of cervical and urothelial cancer. Remaining cancers were negative.