

Fatty acid-binding protein, epidermal

UniProt
Function: High specificity for fatty acids. Highest affinity for C18 chain length. Decreasing the chain length or introducing double bonds reduces the affinity. May be involved in keratinocyte differentiation.
Subcellular location: Cytoplasm.
Tissue specificity: Keratinocytes; highly expressed in psoriatic skin.

Three antibodies: FABP5-1, FABP5-2 and FABP5-3 were tested, and all antibodies were approved for IHC. FABP5-3 was selected for full protein profiling.

FABP5-3 (CAB040577)

Immunohistochemistry

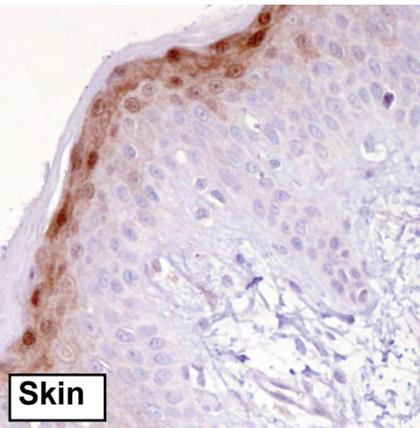
IHC protocol: HIER pH 6, Dilution 1:30000

IHC test staining: Cytoplasmic staining in selected tissues, eg skin, tonsil and endothelial cells.

IHC Annotators comments

Squamous epithelia, the gastrointestinal tract, urothelium and endothelial cells displayed strong cytoplasmic and nuclear immunoreactivity. Lymphoid reaction center cells, fractions of cells in CNS and seminiferous ducts displayed moderate cytoplasmic and nuclear staining. Remaining normal cells were generally negative.

Most squamous cells carcinomas and urothelial cancers showed strong cytoplasmic and nuclear immunoreactivity. Moderate to strong positivity was observed in several malignant melanomas, testicular, colorectal and gastric cancers as well as small fractions of cases the most of the remaining cancers. Malignant gliomas, malignant lymphomas, breast, prostate, ovarian, renal and liver cancers were generally negative.

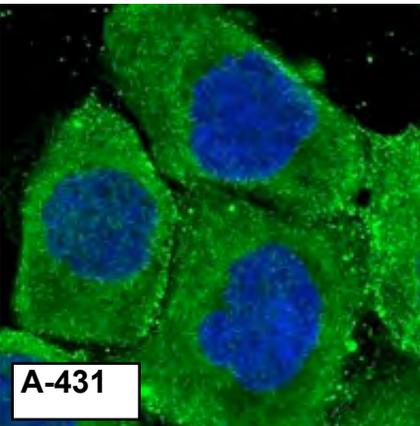


Immunofluorescence

IF Overlay: antibody (green), anti-tubuline (red) and DAPI (blue)

IF Localisation: Staining of plasma membrane and cytoplasm in A-431 and U-2 OS.

IF Validation: Subcellular localization supported by literature.



Western blot

WB Size markers (kDa): 250, 130, 95, 72, 55, 36, 28, 17, 11

WB Lanes: Marker(1), RT-4(2), U251 MG(3), Plasma(4), Liver(5), Tonsil(6)

WB Target weight (kDa): 15, 11

WB Validation: Supportive - High specificity (no other antigen with signal >15%).

