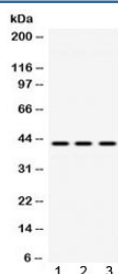


ACAA2 Antibody (R32490)

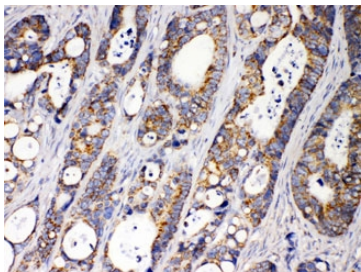
| Catalog No. | Formulation | Size |
|-------------|-------------------------------------------------------|--------|
| R32490 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

Bulk quote request

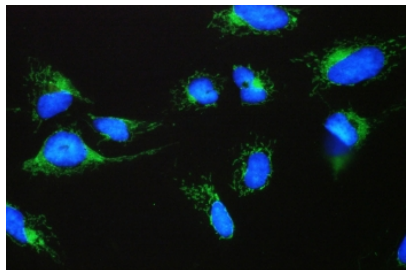
| | |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Availability | 1-3 business days |
| Species Reactivity | Human, Mouse, Rat |
| Format | Antigen affinity purified |
| Clonality | Polyclonal (rabbit origin) |
| Isotype | Rabbit IgG |
| Purity | Antigen affinity |
| Buffer | Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide |
| UniProt | P42765 |
| Localization | Cytoplasmic |
| Applications | Western Blot : 0.5-1ug/ml IHC (FFPE) : 1-2ug/ml IF/ICC (FFPE) : 2-4ug/ml Flow Cytometry : 1-3ug/10 ⁶ cells |
| Limitations | This ACAA2 antibody is available for research use only. |



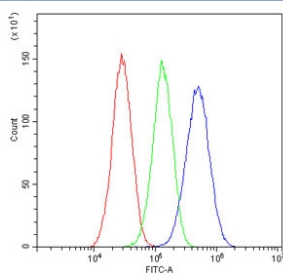
Western blot testing of 1) rat lung, 2) mouse brain and 3) human HeLa lysate with ACAA2 antibody at 0.5ug/ml. Predicted molecular weight ~42 kDa.



IHC testing of FFPE human intestinal cancer tissue with ACAA2 antibody at 1ug/ml. HIER: steam sections in pH6 citrate buffer for 20 min.



IF/ICC staining of FFPE human U-2 OS cells with ACAA2 antibody (green) at 2ug/ml and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Flow cytometry testing of human HepG2 cells with ACAA2 antibody at 1ug/10⁶ cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= ACAA2 antibody.

Description

3-Ketoacyl-CoA thiolase, mitochondrial, also known as acetyl-Coenzyme A acyltransferase 2, is an acetyl-CoA C-acyltransferase enzyme that in humans is encoded by the ACAA2 gene. The ACAA2 gene encodes a 41.9 kDa protein that is composed of 397 amino acids and contains 88 observed peptides. The encoded protein catalyzes the last step of the mitochondrial fatty acid beta oxidation spiral. Unlike most mitochondrial matrix proteins, it contains a non-cleavable amino-terminal targeting signal. Additionally, ACAA2 has been shown to be a functional BNIP3 binding partner, which provides a possible link between fatty acid metabolism and cell apoptosis.

Application Notes

Differences in protocols and secondary/substrate sensitivity may require the ACAA2 antibody to be titrated for optimal performance.

Immunogen

Amino acids 207-242 (EVKTKKGKQTMQVDEHARPQTTLLEQLQKLPPVFKKD from the human protein were used as the immunogen for the ACAA2 antibody.

Storage

After reconstitution, the ACAA2 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.

