

Immunotag™ Fatty Acid Synthase mouse mAb

| Antibody Specification | |
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| Catalog No. | ITM1523 |
| Product Description | Immunotag™ Fatty Acid Synthase mouse mAb |
| Size | 50 µg, 100 µg |
| Conjugation | HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647 |
| IMPORTANT NOTE | This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return. |
| Target Protein | Fatty Acid Synthase |
| Clonality | Monoclonal |
| Storage/Stability | -20°C/1 year |
| Application | WB,IP,IF |
| Recommended Dilution | wb dilution 1:1000 icc dilution 1:200 |
| Concentration | 1 mg/ml |
| Reactive Species | Human,Mouse,Rat,Monkey |
| Host Species | Mouse |
| Specificity | This antibody detects endogenous levels of Fatty Acid Synthase and does not cross-react with related proteins. |
| Purification | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen |
| Form | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| Gene Name | fasn |
| Accession No. | P49327 P19096 |
| Alternate Names | [Acyl-carrier-protein] S acetyltransferase; [Acyl-carrier-protein] S malonyltransferase; 3-hydroxypalmitoyl-[acyl-carrier-protein] dehydratase; 3-oxoacyl-[acyl-carrier-protein] reductase; 3-oxoacyl-[acyl-carrier-protein] synthase; Enoyl-[acyl-carrier-protein] reductase; FAS; FAS_HUMAN; FASN; Fatty acid synthase; MGC14367; MGC15706; OA 519; Oleoyl-[acyl-carrier-protein] hydrolase; SDR27X1; Short chain dehydrogenase/reductase family 27X member 1. |

Antibody Specification

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| Description | fatty acid synthase(FASN) Homo sapiens The enzyme encoded by this gene is a multifunctional protein. Its main function is to catalyze the synthesis of palmitate from acetyl-CoA and malonyl-CoA, in the presence of NADPH, into long-chain saturated fatty acids. In some cancer cell lines, this protein has been found to be fused with estrogen receptor-alpha (ER-alpha), in which the N-terminus of FAS is fused in-frame with the C-terminus of ER-alpha. [provided by RefSeq, Jul 2008], |
| Cell Pathway/ Category | Fatty acid biosynthesis,Insulin_Receptor, |
| Protein Expression | B-cell lymphoma,Brain,Epithelium,Eye,Liver, |
| Subcellular Localization | cytoplasm,mitochondrion,Golgi apparatus,cytosol,plasma membrane,cell-cell adherens junction,membrane,melanosome,glycogen granule,extracellular exosome, |
| Protein Function | catalytic activity:(3R)-3-hydroxyacyl-[acyl-carrier-protein] + NADP(+) = 3-oxoacyl-[acyl-carrier-protein] + NADPH.,catalytic activity:(3R)-3-hydroxypalmitoyl-[acyl-carrier-protein] = hexadec-2-enoyl-[acyl-carrier-protein] + H(2)O.,catalytic activity:Acetyl-CoA + [acyl-carrier-protein] = CoA + acetyl-[acyl-carrier-protein].,catalytic activity:Acetyl-CoA + n malonyl-CoA + 2n NADPH = a long-chain fatty acid + (n+1) CoA + n CO(2) + 2n NADP(+).,catalytic activity:Acyl-[acyl-carrier-protein] + malonyl-[acyl-carrier-protein] = 3-oxoacyl-[acyl-carrier-protein] + CO(2) + [acyl-carrier-protein].,catalytic activity:Acyl-[acyl-carrier-protein] + NADP(+) = trans-2,3-dehydroacyl-[acyl-carrier-protein] + NADPH.,catalytic activity:Malonyl-CoA + [acyl-carrier-protein] = CoA + malonyl-[acyl-carrier-protein].,catalytic activity:Oleoyl-[acyl-carrier-protein] + H(2)O = [acyl-carrier-protein] + oleate.,function:Fatty acid synthetase catalyzes the formation of long-chain fatty acids from acetyl-CoA, malonyl-CoA and NADPH. This multifunctional protein has 7 catalytic activities and an acyl carrier protein.,miscellaneous:The relatively low beta-ketoacyl synthase activity may be attributable to the low 4'-phosphopantetheine content of the protein.,sequence caution:Several sequencing errors.,similarity:Contains 1 acyl carrier domain.,subcellular location:Identified by mass spectrometry in melanosome fractions from stage I to stage IV.,subunit:Homodimer which is arranged in a head to tail fashion.,tissue specificity:Ubiquitous. Prominent expression in brain, lung, and liver., |
| Usage | For Research Use Only! Not for diagnostic or therapeutic procedures. |