# FA2H Polyclonal Antibody

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| **Catalog No** | BYab-10769 |
| **Isotype** | IgG |
| **Reactivity** | Human;Mouse;Rat |
| **Applications** | WB;ELISA |
| **Gene Name** | FA2H |
| **Protein Name** | FA2H |
| **Immunogen** | Synthesized peptide derived from human FA2H. at AA range: 101-150 |
| **Specificity** | FA2H Polyclonal Antibody detects endogenous levels of FA2H |
| **Formulation** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| **Source** | Polyclonal, Rabbit,IgG |
| **Purification** | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| **Dilution** | WB 1:500-2000, ELISA 1:10000-20000 |
| **Concentration** | 1 mg/ml |
| **Purity** | ≥90% |
| **Storage Stability** | -20°C/1 year |
| **Synonyms** | Fatty acid 2-hydroxylase (EC 1.-.-.-) (Fatty acid alpha-hydroxylase) |
| **Observed Band** | 55kD |
| **Cell Pathway** | Endoplasmic reticulum membrane ; Multi-pass membrane protein . Microsome membrane ; Multi-pass membrane protein . |
| **Tissue Specificity** | Detected in differentiating cultured keratinocytes (at protein level). Detected in epidermis and cultured keratinocytes (PubMed:17355976). Highly expressed in brain and colon. Detected at lower levels in testis, prostate, pancreas and kidney (PubMed:15337768). |
| **Function** | cofactor:Iron.,disease:Defects in FA2H are the cause of leukodystrophy dysmyelinating with spastic paraparesis with or without dystonia (DLDSP) [MIM:612443]. The disorder consists of a progressive neurologic disease manifested by spasticity, disordered tonicity of muscle, and white matter degeneration.,domain:The histidine box domains may contain the active site and/or be involved in metal ion binding.,function:Required for alpha-hydroxylation of free fatty acids and the formation of alpha-hydroxylated sphingolipids.,induction:Up-regulated during keratinocyte differentiation.,similarity:Belongs to the SCS7 family.,similarity:Contains 1 |

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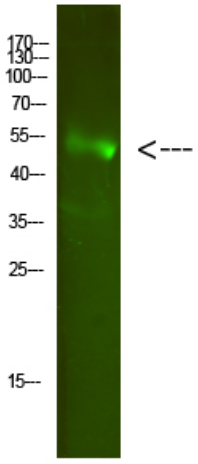
| | cytochrome b5 heme-binding domain.,tissue specificity:Detected in differentiating cultured keratinocytes (at protein level). Detected in epidermis and cultured keratinocytes. Highly expressed in brain and colon. Detected at lower levels in testis, prostate |
| **Background** | This gene encodes a protein that catalyzes the synthesis of 2-hydroxysphingolipids, a subset of sphingolipids that contain 2-hydroxy fatty acids. Sphingolipids play roles in many cellular processes and their structural diversity arises from modification of the hydrophobic ceramide moiety, such as by 2-hydroxylation of the N-acyl chain, and the existence of many different head groups. Mutations in this gene have been associated with leukodystrophy dysmyelinating with spastic paraparesis with or without dystonia.[provided by RefSeq, Mar 2010], |
| **matters needing attention** | Avoid repeated freezing and thawing! |
| **Usage suggestions** | This product can be used in immunological reaction related experiments. For more information, please consult technical personnel. |

## Products Images




Western Blot analysis of mouse-heart cells using primary antibody diluted at 1:2000(4°C overnight). Secondary antibody:Goat Anti-rabbit IgG IRDye 800( diluted at 1:5000, 25°C, 1 hour)