

Product datasheet for **TA326950S**

LDHA Rabbit Polyclonal Antibody

Product data:

| | |
|-------------------------|---|
| Product Type: | Primary Antibodies |
| Applications: | ICC/IF, IP, WB |
| Recommended Dilution: | WB 1:500 - 1:2000;IF 1:10 - 1:100 |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Isotype: | IgG |
| Clonality: | Polyclonal |
| Immunogen: | Recombinant protein of human LDHA |
| Formulation: | PBS with 0.09% Sodium azide,50% glycerol,pH7.3. |
| Concentration: | lot specific |
| Purification: | Affinity purification |
| Conjugation: | Unconjugated |
| Storage: | Store at -20°C as received. |
| Stability: | Stable for 12 months from date of receipt. |
| Predicted Protein Size: | 37 kDa |
| Gene Name: | lactate dehydrogenase A |
| Database Link: | NP_005557 Entrez Gene 16828 Mouse Entrez Gene 24533 Rat Entrez Gene 3939 Human P00338 |

Background: Lactate dehydrogenase (LDH) catalyzes the interconversion of pyruvate and NADH to lactate and NAD⁺. When the oxygen supply is too low for mitochondrial ATP production, this reaction recycles NADH generated in glycolysis to NAD⁺, which reenters glycolysis. The major form of LDH found in muscle cells is the A (LDHA) isozyme. The LDHA promoter contains HIF-1 α binding sites. LDHA expression is induced under hypoxic conditions. During intensive and prolonged muscle exercise, lactate accumulates in muscle cells when the supply of oxygen does not meet demand. When oxygen levels return to normal, LDH converts lactate to pyruvate to generate ATP in the mitochondrial electron transport chain.

Synonyms: GSD11; HEL-S-133P; LDHM; PIG19

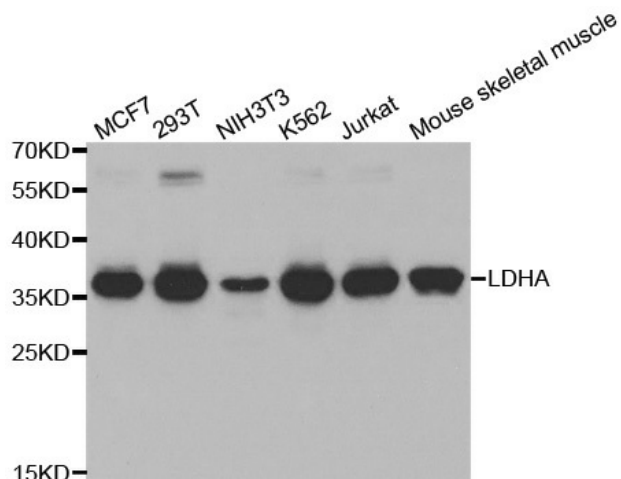


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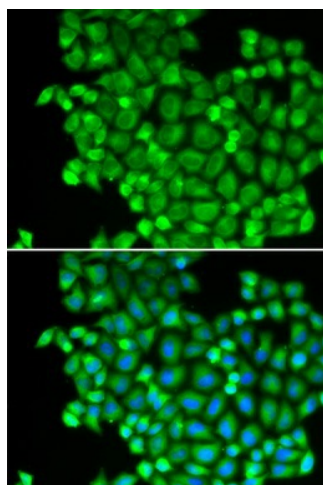
Protein Families: Druggable Genome

Protein Pathways: Cysteine and methionine metabolism, Glycolysis / Gluconeogenesis, Metabolic pathways, Propanoate metabolism, Pyruvate metabolism

Product images:



Western blot analysis of extracts of various cell lines, using LDHA antibody.



Immunofluorescence analysis of A549 cell using LDHA antibody. Blue: DAPI for nuclear staining.