

## Rabbit anti-Human FDX1 Polyclonal Antibody | anti-FDX1 antibody

FDX1 Antibody

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                                 |
|-----------|--------|------------|--------------------------------------------------------------|
| AAA327363 | Rabbit | Human      | ELISA, Immunocytochemistry, Immunofluorescence, Western Blot |

### PRODUCT SYNONYMS

FDX1; Polyclonal Antibody; FDX1 Antibody; Adrenal ferredoxin; Adrenodoxin; mitochondrial; ADX; ADX\_HUMAN; FDX; fdx1; Ferredoxin 1; Ferredoxin-1; Hepatoredoxin; LOH11CR1D; Mitochondrial adrenodoxin; anti-FDX1 antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                    |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                             |
| Reactivity                                     | Human                                                                                                                              |
| Clonality                                      | Polyclonal                                                                                                                         |
| Isotype                                        | IgG                                                                                                                                |
| Specificity                                    | FDX1 antibody detects endogenous levels of total FDX1                                                                              |
| Purity/Purification                            | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.                                      |
| Form/Format                                    | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                      |
| Concentration                                  | 1mg/ml (varies by lot)                                                                                                             |
| Sequence Length                                | 184                                                                                                                                |
| Applicable Applications for anti-FDX1 antibody | ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)                                                       |
| Immunogen                                      | A synthesized peptide derived from human FDX1                                                                                      |
| Subcellular Location                           | Mitochondrion Matrix.                                                                                                              |
| Tissue Specificity                             | Highest levels in the adrenal gland (at protein level). Also detected in kidney and testis (at protein level).                     |
| Predicted Cross Reactivity                     | <b>Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus</b>                                                         |
| Similarity                                     | Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%) |
| Conjugation                                    | Unconjugated                                                                                                                       |
| Preparation and Storage                        | Store at -20 degree C. Stable for 12 months from date of receipt.                                                                  |

IMAGES



**WB (Western Blot)**  
Western blot analysis of FDX1 using HepG2 whole lysates.



**IF (Immunofluorescence)**  
AAA327363 staining HepG2 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-FDX1 antibody | Function: Essential for the synthesis of various steroid hormones (PubMed:20547883, PubMed:21636783). Participates in the reduction of mitochondrial cytochrome P450 for steroidogenesis (PubMed:20547883, PubMed:21636783). Transfers electrons from adrenodoxin reductase to CYP11A1, a cytochrome P450 that catalyzes cholesterol side-chain cleavage (PubMed:20547883, PubMed:21636783). Does not form a ternary complex with adrenodoxin reductase and CYP11A1 but shuttles between the two enzymes to transfer electrons (By similarity).<br>Subunit Structure: Interacts with CYP11A1.<br>Similarity: Belongs to the adrenodoxin/putidaredoxin family. |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                       |
|----------------------------------|---------------------------------------|
| NCBI GI #                        | 4758352                               |
| NCBI GeneID                      | 2230                                  |
| NCBI Accession #                 | NP_004100.1                           |
| NCBI GenBank Nucleotide #        | NM_004109.4                           |
| UniProt Accession #              | P10109; Q53YD6; B0YJ14                |
| Molecular Weight                 | Observed: 19 kDa<br>Predicted: 20 kDa |
| NCBI Official Full Name          | adrenodoxin, mitochondrial            |
| NCBI Official Synonym Full Names | ferredoxin 1                          |
| NCBI Official Symbol             | FDX1                                  |
| NCBI Official Synonym Symbols    | ADX; FDX; LOH11CR1D                   |
| NCBI Protein Information         | adrenodoxin, mitochondrial            |
| UniProt Protein Name             | Adrenodoxin, mitochondrial            |
| UniProt Gene Name                | <b>FDX1</b>                           |
| UniProt Synonym Gene Names       | ADX                                   |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.