

## UK Office

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**Research Use Only. Not for  
diagnostic or therapeutic use.**

## EB07914 - Goat Anti-COX4I1 Antibody

Size: 100µg specific antibody in 200µl



### Target Protein

**Principal Names:** COX4I1, cytochrome c oxidase subunit IV isoform 1, COX4, COXIV, MGC72016, COX4-1, COXIV-1, cytochrome c oxidase polypeptide IV

**Official Symbol:** COX4I1

**Accession Number(s):** NP\_001852.1; NP\_001305726.1

**Human GeneID(s):** [1327](#)

**Important Comments:** This antibody is expected to recognize reported isoforms 1 and 4 (NP\_001852.1; NP\_001305726.1). Reported variants represent identical protein: NP\_001305715.1, NP\_001852.1. This product may cross-react to COX4I2 (GeneID 84701).

### Immunogen

Peptide with sequence C-QGLASKWDYEKNE, from the C Terminus of the protein sequence according to NP\_001852.1; NP\_001305726.1.

Please note the [peptide](#) is available for sale.

### Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

### Applications Tested

**Peptide ELISA:** antibody detection limit dilution 1:4000.

**Western blot:** Approx 18kDa band observed in human skeletal muscle lysates (calculated MW of 19.6kDa according to NP\_001852.1). Recommended concentration: 0.01-0.03µg/ml.

**IHC:** In paraffin embedded Human Thyroid Gland shows pixulate (mitochondrial) staining in the cytoplasm of epithelial cells. Recommended concentration, 2-4µg/ml.

### Species Reactivity

**Tested:** Human

**Expected from sequence similarity:** Human

EB07914 (0.01µg/ml) staining of human muscle lysate (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

EB07914 (2.5µg/ml) staining of paraffin embedded Human Thyroid Gland. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.