

For Research Use Only

# MTCO2 Recombinant Matched Antibody Pair, PBS Only



Catalog Number:MP00254-1

## Capture Antibody Information

**Catalog Number:**  
83132-3-PBS  
**Host:**  
Rabbit  
**Isotype:**  
IgG  
**Purification Method:**  
Protein A purification

**Clone ID:**  
230448B4  
**Reactivity:**  
human

**Conjugate:**  
Unconjugated  
**Full name:**  
cytochrome c oxidase II  
**Gene ID:**  
4513

## Detection Antibody Information

**Catalog Number:**  
83132-6-PBS  
**Host:**  
Rabbit  
**Isotype:**  
IgG  
**Purification Method:**  
Protein A purification

**Clone ID:**  
230448E2  
**Reactivity:**  
human  
**GenBank:**  
YP\_003024029

**Conjugate:**  
Unconjugated  
**Full name:**  
cytochrome c oxidase II  
**Gene ID:**  
4513

## Applications

**Tested Applications:**  
Cytometric bead array, Sandwich ELISA

**Range:**  
0.313-20 ng/mL (Cytometric Bead Array)  
7.8-250 pg/mL (Sandwich ELISA)

**Recommended Dilutions:**  
It is recommended that this reagent should be titrated in each testing system to obtain optimal results.

## Product Information

MP00254-1 targets MTCO2 in immunoassays as a matched antibody pair. Validated in Cytometric bead array, Sandwich ELISA.

Capture antibody: MTCO2 Recombinant monoclonal antibody, PBS Only (Capture) 83132-3-PBS (230448B4). 100 µg. Concentration 1 mg/mL.

Detection antibody: MTCO2 Recombinant monoclonal antibody, PBS Only (Detector) 83132-6-PBS (230448E2). 100 µg. Concentration 1 mg/mL.

Unconjugated rabbit recombinant monoclonal antibody pair in PBS only storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

Matched antibody pairs are designed for use in a variety of assays and platforms that require matched antibody pairs.

Antibody use should be optimized for each application and assay.

## Storage

**Storage:**  
Store at -80°C.  
**Storage buffer:**  
PBS only

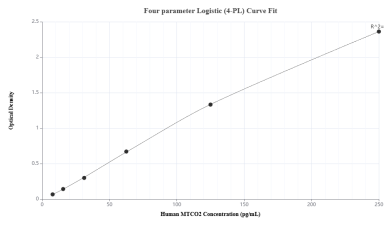
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

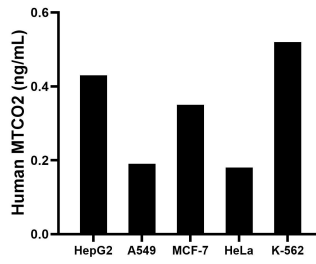
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

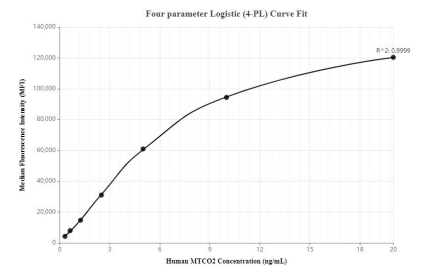
## Selected Validation Data



Sandwich ELISA standard curve of MP00254-1, Human MTCO2 Recombinant Matched Antibody Pair - PBS only. 83132-3-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard SY01099. 83132-6-PBS was HRP conjugated as the detection antibody. Range: 7.8-250 pg/mL



The mean MTCO2 concentration was determined to be 0.43 ng/mL in HepG2 cell extract based on a 1.2 mg/mL extract load, 0.19 ng/mL in A549 cell extract based on a 1.1 mg/mL extract load, 0.35 ng/mL in MCF-7 cell extract based on a 1.2 mg/mL extract load, 0.18 ng/mL in HeLa cell extract based on a 1.2 mg/mL extract load and 0.52 ng/mL in K-562 cell extract based on a 1.2 mg/mL extract load.



Cytometric bead array standard curve of MP00254-1, MTCO2 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83132-3-PBS. Detection antibody: 83132-6-PBS. Standard: SY01099. Range: 0.313-20 ng/mL