

# HIF-1 alpha Recombinant Matched Antibody Pair, PBS Only

Catalog Number: **MP00762-2**

## Capture Antibody Information

**Catalog Number:**  
83764-17-PBS

**Host:**  
Rabbit

**Isotype:**  
IgG

**Purification Method:**  
Protein A purification

**Clone ID:**  
261594F12

**Reactivity:**  
human

**Immunogen Catalog Number:**  
Ag15198

**Conjugate:**  
Unconjugated

**Full name:**  
hypoxia inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor)

**Gene ID:**  
3091

## Detection Antibody Information

**Catalog Number:**  
83764-16-PBS

**Host:**  
Rabbit

**Isotype:**  
IgG

**Purification Method:**  
Protein A purification

**Clone ID:**  
261594C7

**Reactivity:**  
human

**GenBank:**  
BC012527

**Immunogen Catalog Number:**  
Ag15198

**Conjugate:**  
Unconjugated

**Full name:**  
hypoxia inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor)

**Gene ID:**  
3091

## Applications

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

**Range:**  
0.156-20 ng/mL (Cytometric Bead Array)  
97.7-6250 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

MP00762-2 targets HIF-1 alpha in immunoassays as a matched antibody pair. Validated in Cytometric bead array, Sandwich ELISA.

Capture antibody: HIF1a Recombinant monoclonal antibody, PBS Only (Capture) 83764-17-PBS (261594F12). 100 µg. Concentration 1 mg/mL.

Detection antibody: HIF1a Recombinant monoclonal antibody, PBS Only (Detector) 83764-16-PBS (261594C7). 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

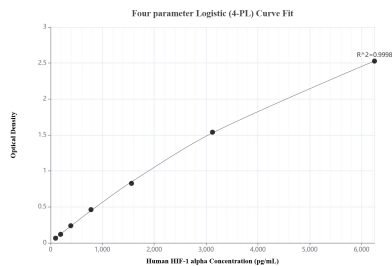
For technical support and original validation data for this product please contact:

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

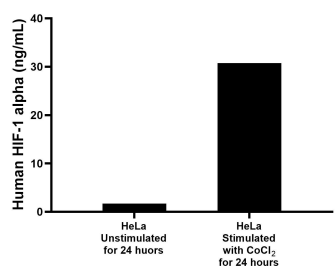
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

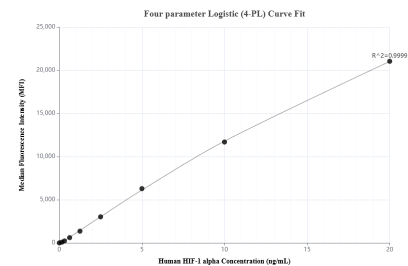
## Selected Validation Data



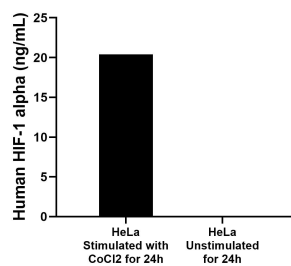
Sandwich ELISA standard curve of MP00762-2, Human HIF-1 alpha Recombinant Matched Antibody Pair - PBS only. 83764-17-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag15198. 83764-16-PBS was HRP conjugated as the detection antibody. Range: 97.7-6250 pg/mL.



HeLa cells were cultured unstimulated or stimulated with 400 uM CoCl<sub>2</sub> for 24 hours. The mean HIF-1 alpha concentration was determined to be 1.7 ng/mL in unstimulated HeLa cell extract based on a 2.3 mg/mL extract load and 30.8 ng/mL in CoCl<sub>2</sub> stimulated HeLa cell extract based on a 1.6 mg/mL extract load.



Cytometric bead array standard curve of MP00762-2, HIF-1 alpha Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83764-17-PBS. Detection antibody: 83764-16-PBS. Standard: Ag15198. Range: 0.156-20 ng/mL.



Based on a 1.0 mg/mL extract load, the mean HIF-1 alpha concentration was 0.2 ng/mL in untreated HeLa cell extracts and 20.4 ng/mL in HeLa cell extract treated with 400 uM CoCl<sub>2</sub> for 24 hours.