

# MTHFR Recombinant Matched Antibody Pair, PBS Only

Catalog Number:MP00372-1

## Capture Antibody Information

**Catalog Number:**  
83372-5-PBS  
**Host:**  
Rabbit  
**Isotype:**  
IgG  
**Purification Method:**  
Protein A purification

**Clone ID:**  
240348C3  
**Reactivity:**  
human  
**GenBank:**  
BC053509  
**Immunogen Catalog Number:**  
Ag14970

**Conjugate:**  
Unconjugated  
**Full name:**  
5,10-methylenetetrahydrofolate reductase (NADPH)  
**Gene ID:**  
4524

## Detection Antibody Information

**Catalog Number:**  
83372-4-PBS  
**Host:**  
Rabbit  
**Isotype:**  
IgG  
**Purification Method:**  
Protein A purification

**Clone ID:**  
240348H7  
**Reactivity:**  
human  
**GenBank:**  
BC053509  
**Immunogen Catalog Number:**  
Ag14970

**Conjugate:**  
Unconjugated  
**Full name:**  
5,10-methylenetetrahydrofolate reductase (NADPH)  
**Gene ID:**  
4524

## Applications

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

**Range:**  
0.78-100 ng/mL (Cytometric Bead Array)  
0.156-10 ng/mL (Sandwich ELISA)

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

## Product Information

MP00372-1 targets MTHFR in immunoassays as a matched antibody pair. Validated in Cytometric bead array, Sandwich ELISA.

Capture antibody: MTHFR Recombinant antibody, PBS Only (Capture) 83372-5-PBS (240348C3). 100 µg. Concentration 1 mg/ml.

Detection antibody: MTHFR Recombinant antibody, PBS Only (Detector) 83372-4-PBS (240348H7). 100 µg. Concentration 1 mg/ml.

Alternative MTHFR matched antibody pairs: MP00372-2, MP00372-3

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.

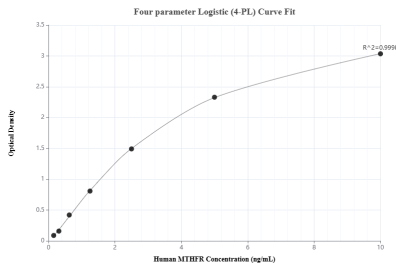
Matched antibody pairs are designed for use in a variety of assays and platforms that require matched antibody pairs.

Antibody use should be optimized for each application and assay.

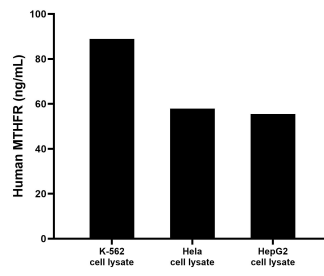
## Storage

**Storage:**  
Store at -80°C.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**  
**Storage buffer:**  
PBS only

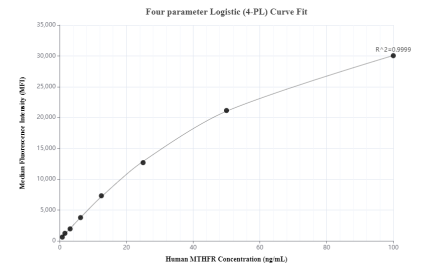
## Selected Validation Data



Sandwich ELISA standard curve of MP00372-1, Human MTHFR Recombinant Matched Antibody Pair - PBS only. 83372-5-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag14970. 83372-4-PBS was HRP conjugated as the detection antibody. Range: 0.156-10 ng/mL



K-562, HeLa and HepG2 cell lysates were measured. The human MTHFR concentration of detected samples was determined to be 88.86 ng/mL (based on a 4.5 mg/mL extract load) in K-562 cell lysate, 57.89 ng/mL (based on a 3.2 mg/mL extract load) in HeLa cell lysate and 55.55 ng/mL (based on a 5 mg/mL extract load) in HepG2 cell lysate.



Cytometric bead array standard curve of MP00372-1, MTHFR Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83372-5-PBS. Detection antibody: 83372-4-PBS. Standard: Ag14970. Range: 0.78-100 ng/mL