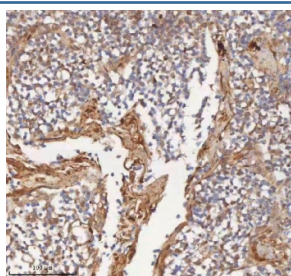


## MIPEP Antibody / Mitochondrial intermediate peptidase (RQ8770)

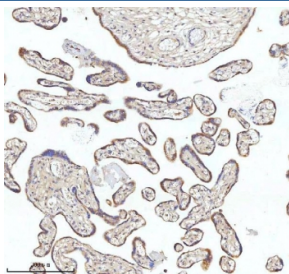
| Catalog No. | Formulation                                           | Size   |
|-------------|-------------------------------------------------------|--------|
| RQ8770      | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

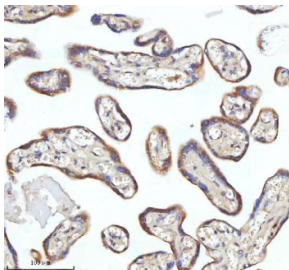
|                           |                                                                                                                                   |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <b>Availability</b>       | 1-3 days                                                                                                                          |
| <b>Species Reactivity</b> | Human, Mouse, Rat                                                                                                                 |
| <b>Format</b>             | Antigen affinity purified                                                                                                         |
| <b>Host</b>               | Rabbit                                                                                                                            |
| <b>Clonality</b>          | Polyclonal (rabbit origin)                                                                                                        |
| <b>Isotype</b>            | Rabbit IgG                                                                                                                        |
| <b>Purity</b>             | Antigen affinity chromatography                                                                                                   |
| <b>Buffer</b>             | Lyophilized from 1X PBS with 2% Trehalose                                                                                         |
| <b>UniProt</b>            | Q99797                                                                                                                            |
| <b>Localization</b>       | Cytoplasm                                                                                                                         |
| <b>Applications</b>       | Western Blot : 1-2ug/ml<br>Immunohistochemistry (FFPE) : 2-5ug/ml<br>Flow Cytometry : 1-3ug/million cells<br>ELISA : 0.1-0.5ug/ml |
| <b>Limitations</b>        | This MIPEP antibody is available for research use only.                                                                           |



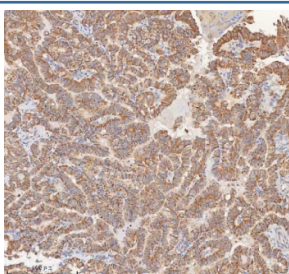
IHC staining of FFPE human tonsil tissue with MIPEP antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



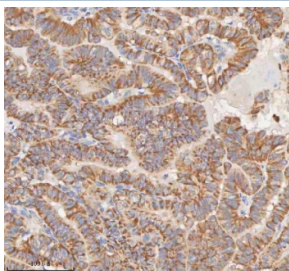
IHC staining of FFPE human placental tissue with MIPEP antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



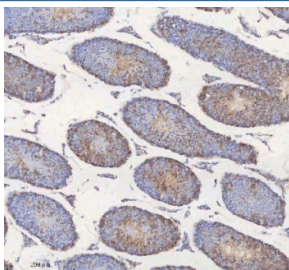
IHC staining of FFPE human placental tissue with MIPEP antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



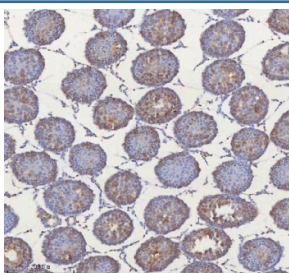
IHC staining of FFPE human thyroid papillary carcinoma tissue with MIPEP antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



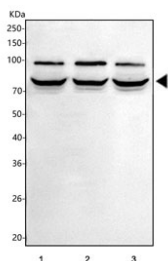
IHC staining of FFPE human thyroid papillary carcinoma tissue with MIPEP antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



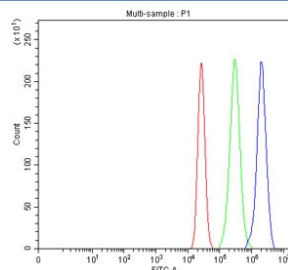
IHC staining of FFPE mouse testis tissue with MIPEP antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE rat testis tissue with MIPEP antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of human 1) HepG2, 2) MCF7 and 3) Caco-2 cell lysate with MIPEP antibody. Predicted molecular weight ~81 kDa, commonly observed at 70-81 kDa.



Flow cytometry testing of fixed and permeabilized human MCF7 cells with MIPEP antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= MIPEP antibody.

## Description

Mitochondrial intermediate peptidase is an enzyme that in humans is encoded by the MIPEP gene. The product of this gene performs the final step in processing a specific class of nuclear-encoded proteins targeted to the mitochondrial matrix or inner membrane. This protein is primarily involved in the maturation of oxidative phosphorylation (OXPHOS)-related proteins. This gene may contribute to the functional effects of frataxin deficiency and the clinical manifestations of Friedreich ataxia.

## Application Notes

Optimal dilution of the MIPEP antibody should be determined by the researcher.

## Immunogen

An E.coli-derived human recombinant protein (amino acids D357-E713) was used as the immunogen for the MIPEP antibody.

## Storage

After reconstitution, the MIPEP Antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.