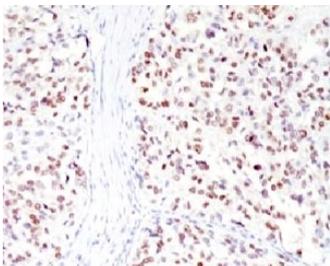


## MITF Antibody [clone MPAF3] (V7109)

| Catalog No.    | Formulation   | Size   |
|----------------|---|--------|
| V7109-100UG    | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide                      | 100 ug |
| V7109-20UG     | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide                      | 20 ug  |
| V7109SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free  | 100 ug |
| V7109IHC-7ML   | Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only* | 7 ml   |

### Bulk quote request

|                           |   |
|---------------------------|---|
| <b>Availability</b>       | 1-3 business days   |
| <b>Species Reactivity</b> | Human   |
| <b>Format</b>             | Purified  |
| <b>Host</b>               | Mouse   |
| <b>Clonality</b>          | Monoclonal (mouse origin)   |
| <b>Isotype</b>            | Mouse IgG1, kappa   |
| <b>Clone Name</b>         | MPAF3   |
| <b>Purity</b>             | Protein G affinity chromatography   |
| <b>UniProt</b>            | O75030  |
| <b>Localization</b>       | Nuclear   |
| <b>Applications</b>       | Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT<br>Prediluted IHC Only Format : incubate for 30 min at RT (1) |
| <b>Limitations</b>        | This MITF antibody is available for research use only.  |



IHC testing of FFPE human melanoma with MITF antibody (clone MPAF3). Staining of formalin-fixed tissues requires boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min. followed by cooling at RT for 20 min.

## Description

MITF (microphthalmia transcription factor) is a transcription factor that regulates the expression of genes with essential roles in cell differentiation, proliferation and survival. Binds to symmetrical DNA sequences (E-boxes) (5'-CACGTG-3') found in the promoters of target genes, such as BCL2 and tyrosinase (TYR). Plays an important role in melanocyte development by regulating the expression of tyrosinase (TYR) and tyrosinase-related protein 1 (TYRP1). Plays a critical role in the differentiation of various cell types, such as neural crest-derived melanocytes, mast cells, osteoclasts and optic cup-derived retinal pigment epithelium. [UniProt]

## Application Notes

Titering of the MITF antibody may be required for optimal performance.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

## Immunogen

Recombinant full-length human protein was used as the immunogen for the MITF antibody.

## Storage

Store the MITF antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).