

## HIF-1 $\alpha$ [EP1215Y] - 160Gd

**Catalog:** 716004

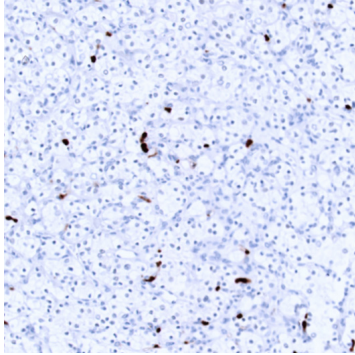
**Clone:** EP1215Y

**Isotype:** Rabbit IgG

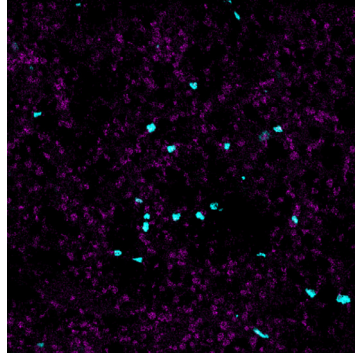
**Reactivity:** Human\*

**Application:** MIBI-FFPE

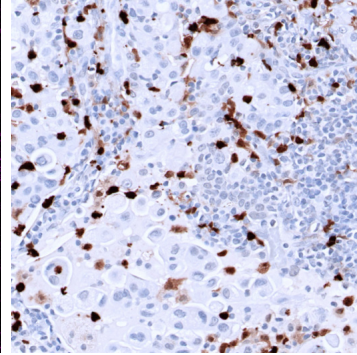
**Storage:** Supplied in antibody stabilizer with 0.05% sodium azide. Store at 4°C



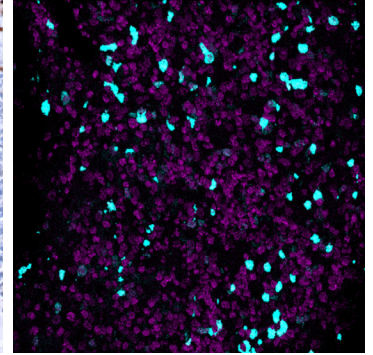
**IHC:** HIF-1 $\alpha$  staining of FFPE human clear cell RCC



**MIBI:** HIF-1 $\alpha$  staining (cyan) of FFPE human clear cell RCC, costained with dsDNA (magenta)



**IHC:** HIF-1 $\alpha$  staining of FFPE human lung adenocarcinoma



**MIBI:** HIF-1 $\alpha$  staining (cyan) of FFPE human lung adenocarcinoma, costained with dsDNA (magenta)

### Background

Hypoxia-inducible factor 1 alpha (HIF1A) is a subunit of HIF1, a heterodimeric transcription factor that plays a critical role in the cellular response to hypoxia. HIF1-alpha regulates hypoxia-mediated apoptosis, cell proliferation and tumor angiogenesis.

### Validation

Each lot of conjugated antibody is quality control tested by staining tissue following the MIBI Staining Protocol optimized for the applicable tissue format with subsequent MIBIscope analysis of stained tissue microarray using the appropriate positive and negative tissue field of views. These results are pathologist verified.

### Recommended Usage

Human FFPE: 1:100 dilution. For optimal results, the antibody should be titrated for each desired application.

### References

Frank R Sharp and Myriam Bernaudin. HIF1 and oxygen sensing in the brain. *Nat Rev Neurosci*. 2004 Jun;5(6):437-48.

P Carmeliet et al. Role of HIF-1alpha in hypoxia-mediated apoptosis, cell proliferation and tumour angiogenesis. *Nature* 1998 Jul 30;394(6692):485-90.

\* Conjugate tested on human tissue.