

## UK Office

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**Research Use Only. Not for  
diagnostic or therapeutic use.**

## EB07512 - Goat Anti-PIK3CA / P110alpha Antibody

Size: 100µg specific antibody in 200µl

### Target Protein

**Principal Names:** PIK3CA, p110-alpha, phosphoinositide-3-kinase, catalytic, alpha polypeptide, MGC142161, MGC142163, PI3K, PI3-kinase p110 subunit alpha, PtdIns-3-kinase p110, phosphatidylinositol 3-kinase, catalytic, 110-KD, alpha, phosphatidylinositol 3-kinase, catalytic, alpha polypeptide, phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit, alpha isoform

**Official Symbol:** PIK3CA

**Accession Number(s):** NP\_006209.2

**Human GeneID(s):** [5290](#)

**Non-Human GeneID(s):** 18706 (mouse), 170911 (rat)

### Immunogen

Peptide with sequence C-HQWLKDKNKGEIYD, from the internal region of the protein sequence according to NP\_006209.2.

Please note the [peptide](#) is available for sale.

### Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

### Applications Tested

**Peptide ELISA:** antibody detection limit dilution 1:128000.

**Western blot:** Preliminary experiments in lysates of cell lines A431, HeLa and Jurkat gave no specific signal but low background (at antibody concentration up to 1µg/ml).

**IHC:** In paraffin embedded Human Brain (Cerebral Cortex) shows cytoplasm stained in the cell bodies. Recommended concentration: 2-3µg/ml. Paraffin embedded Human Heart. Recommended concentration: 5µg/ml. This antibody has been successfully used in IHC on Human in the following paper: Abubaker J et al. (2009) PMID: 19638206.

### Species Reactivity

**Tested:** Human

**Expected from sequence similarity:** Human, Mouse, Rat, Dog, Cow

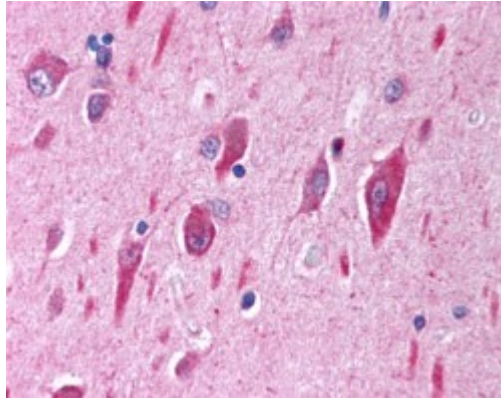
### Specific Reference

**This antibody has been successfully used in IHC on Human:**

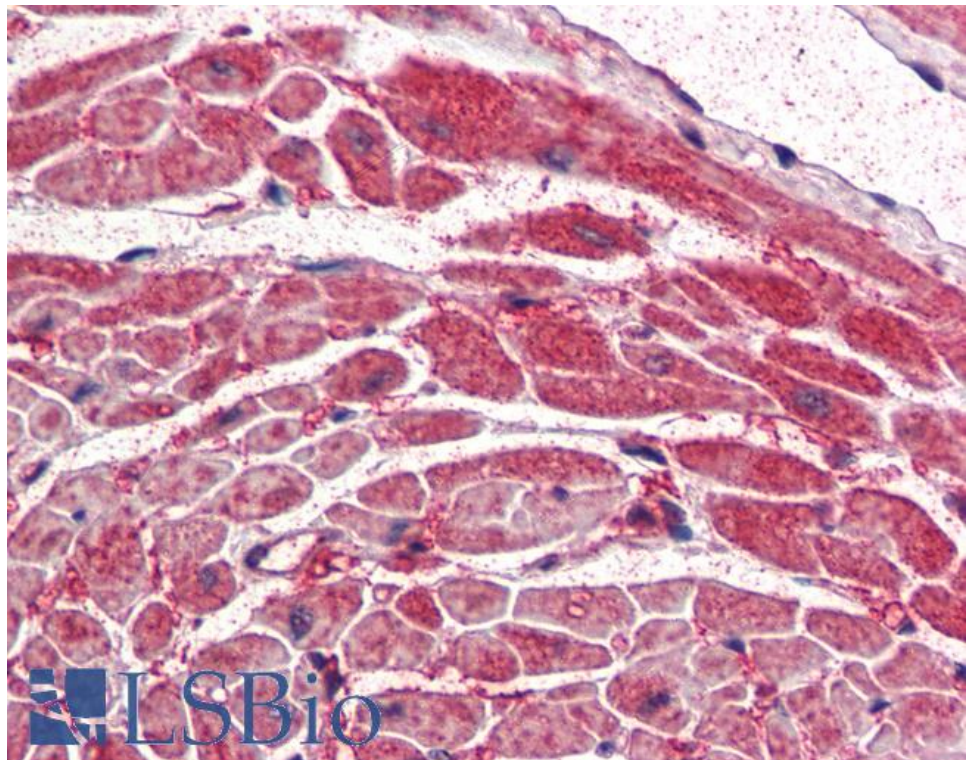
Abubaker J, Bavi P, Al-Haqawi W, Jehan Z, Munkarah A, Uddin S, Al-Kuraya KS. PIK3CA alterations in Middle Eastern ovarian cancers.

Mol Cancer. 2009 Jul 28;8:51.

PMID: 19638206



EB07512 (2.5µg/ml) staining of paraffin embedded Human Brain (Cerebellar Cortex). Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



EB07512 (5µg/ml) staining of paraffin embedded Human Heart. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.