

Datasheet: AHP1898

Description:	GOAT ANTI HUMAN PI-3 KINASE p110 SUBUNIT ALPHA
Specificity:	PI-3 KINASE p110 SUBUNIT ALPHA
Other names:	PIK3CA
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin	▪			2.0 - 3.0ug/ml
ELISA	▪			1/128000
Immunoprecipitation			▪	
Western Blotting			▪	

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Species Cross Reactivity	Based on sequence similarity, is expected to react with: Mouse, Rat, Dog, Bovine N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Antiserum Preparation	Antiserum to human p110alpha was raised by repeated immunisation of goats with highly purified antigen. Purified IgG was prepared by affinity chromatography.
Buffer Solution	TRIS buffered saline
Preservative	0.02% Sodium Azide (NaN ₃)
Stabilisers	0.5% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.5mg/ml
Immunogen	Synthetic peptide C-HQWLKDKNKGEIYD from the internal region of human PI3-kinase p110

subunit alpha (NP_006209.2).

External Database**Links****UniProt:**

[P42336](#) [Related reagents](#)

Entrez Gene:

[5290](#) PIK3CA [Related reagents](#)

RRID

AB_2299726

Specificity

Goat anti Human PI-3 kinase p110 subunit alpha antibody recognizes human PI3-kinase p110 subunit alpha (Phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha), otherwise known as PIK3CA, a member of the PI3/PI4-kinase family of lipid kinases, implicated in the regulation of signal transduction during cell growth.

PI3-kinase is a heterodimer consisting of a p85 regulatory subunit and a p110 catalytic subunit, which itself is divided into isoforms p110alpha, p110beta, p110delta and p110gamma. Mutations in the PIK3CA gene are associated with breast, ovarian and colorectal cancers (CRC).<http://www.omim.org/entry/114500> Colorectal cancer is a heterogeneous disease that is common in both men and women. characterized by malignant lesions arising from the inner wall of the large intestine (the colon) and the rectum ([Vehlo et al. 2005](#)).

Histology Positive Control Tissue

Human cerebral cortex

Storage

Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee

12 months from date of despatch

Health And Safety Information

Material Safety Datasheet documentation #10058 available at:
10058: <https://www.bio-rad-antibodies.com/uploads/MSDS/10058.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Goat IgG (Fc) (STAR122...) [FITC](#), [HRP](#)

Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

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