

Datasheet: MCA6302

BATCH NUMBER 171574

Description:	RABBIT ANTI HIF1 ALPHA
Specificity:	HIF1 ALPHA
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	RM242
Isotype:	IgG
Quantity:	0.1 ml

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
Immunohistology - Paraffin	▪			1/500 - 1/1000
Western Blotting	▪			1/1000 - 1/2000

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
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography of Protein A from animal origin-free culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative	0.09% Sodium Azide
Stabilisers	1% Bovine Serum Albumin 50% Glycerol
Immunogen	A peptide corresponding to HIF1 alpha
External Database	UniProt:

Links[Q16665](#)[Related reagents](#)**Entrez Gene:**[3091](#)

HIF1A

[Related reagents](#)**Synonyms**

BHLHE78, MOP1, PASD8

Specificity

Rabbit anti Human HIF1 alpha antibody recognizes hypoxia-inducible factor 1-alpha, also known as BHLHE78, MOP1. HIF transcription factors are the main regulators of cellular responses to hypoxia (low oxygen levels), promoting cell survival. HIF is a heterodimer consisting of either HIF1 alpha, HIF2 alpha, or HIF3 alpha bound to HIF 1 beta ([Huang et al. 2017](#)). Under normal oxygen levels HIF1 alpha is degraded via the ubiquitin-dependent pathway, but under hypoxia, HIF 1 alpha is stabilized, leading to HIF1 binding to the hypoxia responsive element (HRE) in the nucleus and activating genes involved with angiogenesis, migration and survival ([Tatrai et al. 2017](#)). HIF1 alpha expression is elevated in several human cancers including glioblastoma multiforme, hemangioblastoma, and colonic adenocarcinoma, and is strongly associated with mortality and increased metastasis. HIF1 alpha upregulation activates many oncogenic processes including angiogenesis, migration and invasion, pH regulation, and glucose metabolism ([Balamurugan 2016](#)).

Storage

Store at -20°C only.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. 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 #10048 available at:
<https://www.bio-rad-antibodies.com/SDS/MCA6302>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...)

[FITC](#)

Goat Anti Rabbit IgG (H/L) (STAR124...)

[HRP](#)

Goat Anti Rabbit IgG (Fc) (STAR121...)

[Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (STAR35...)

[RPE](#)

Sheep Anti Rabbit IgG (STAR36...)

[DyLight@488](#), [DyLight@680](#), [DyLight@800](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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