

## Datasheet: MCA6302

**BATCH NUMBER 155775**

<b>Description:</b>	RABBIT ANTI HIF1 ALPHA
<b>Specificity:</b>	HIF1 ALPHA
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	RM242
<b>Isotype:</b>	IgG
<b>Quantity:</b>	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](http://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.

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

**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>  
10048

**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](#)

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