

Datasheet: MCA6411GA

BATCH NUMBER 100007433

Description:	MOUSE ANTI HUMAN POLR3A
Specificity:	POLR3A
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AB01/1E10
Isotype:	IgG1
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
Immunoprecipitation	▪			
Western Blotting	▪			1/1000

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 on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	<i>E. coli</i> -derived recombinant protein, aa 600-996 of human POLR3A

**External Database
Links**

UniProt:

[O14802](#) [Related reagents](#)

Entrez Gene:

[11128](#) POLR3A [Related reagents](#)

Specificity

Mouse anti Human POLR3A antibody recognizes POLR3A, otherwise known as DNA-directed RNA polymerase III largest subunit, DNA-directed RNA polymerase III subunit A, RNA polymerase III 155kDa subunit and RNA polymerase III subunit C160.

DNA-directed RNA polymerase is responsible for catalyzing the transcription of DNA into RNA via the four ribonucleoside triphosphates as substrates. It constitutes the largest and catalytic core of RNA polymerase III and transcribes small RNAs such as 5S rRNA and tRNAs; molecules essential for the normal functioning and survival of cells ([Dieci et al. 2007](#)). This protein plays a critical role in detecting and controlling infection by intracellular bacteria and DNA viruses. It also acts as a non-self double stranded DNA sensor in the innate immune response. Synthesis of non-self DNA into RNA leads to type I interferon production via the RIG-1 pathway ([Chiu et al. 2009](#)). Mutations in the POLR3A gene have been linked to a cluster of inherited neurodegenerative disorders called Hypomyelinating Leukodystrophy ([Bernard et al. 2011](#)). Furthermore, studies show the possible connection of the mutated POLR3A gene to autoimmune diseases such as Scleroerma.

Mouse anti Human POLR3A antibody detects a band of 157 kDa.

Western Blotting

Mouse anti Human POLR3A antibody detects a band of 157 kDa in HeLa cell lysates

Storage

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee

12 months from date of despatch

Acknowledgements

PrecisionAb is a trademark of Bio-Rad Laboratories.

**Health And Safety
Information**

Material Safety Datasheet documentation #10040 available at:
<https://www.bio-rad-antibodies.com/SDS/MCA6411GA>
10040

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)

Goat Anti Mouse IgG IgA IgM (STAR87...) [HRP](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),
[FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (STAR77...) [HRP](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M415010:221215'

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