

## Datasheet: MCA6280GA

<b>Description:</b>	MOUSE ANTI HUMAN CD258
<b>Specificity:</b>	CD258
<b>Other names:</b>	TNFSF14
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	D04-8A4
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			1.0 ug/ml

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 on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml

**Immunogen** *E. coli* derived recombinant human CD258 (Leu61-Val240)

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**External Database**

**Links**

**UniProt:**

[O43557](#)

[Related reagents](#)

**Entrez Gene:**

[8740](#)

TNFSF14

[Related reagents](#)

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**Synonyms**

HVEML, LIGHT

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**Fusion Partners**

Cell fusion between immunized BALB/c mouse spleen cells and mouse myeloma SP2/0

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**Specificity**

**Mouse anti Human CD258 antibody, clone D04-8A4**, recognizes CD258 also known as TNFSF14, Herpes virus entry mediator and LIGHT. CD258 is the ligand of the receptor TNFRSF14, which is the cell surface receptor that the Herpes virus uses to attach to the cell surface and to enter into the cell, it is also a ligand of lymphotoxin- $\beta$  receptor ([Ware & Sedý 2011](#)). Signaling events initiated upon binding of CD258 to these receptors is cell dependent. However, the responses are often related to immune system stimulation including the production of various cytokines, adhesion molecules that control the migration and positioning of dendritic cells and lymphocytes ([Skeate et al. 2020](#), [Tang et al. 2016](#)).

CD258 is primarily expressed by activated T cells, activated natural killer cells and immature dendritic cells. It is initially synthesized as a type II transmembrane protein, which can be proteolytically cleaved to release a soluble bioactive form ([Ware & Sedý 2011](#)).

The purified Mouse anti Human CD258 antibody, clone D04-8A4 (MCA62680GA) can be used as a capture antibody in a sandwich ELISA with the biotinylated Mouse anti Human CD258 antibody, clone B01-9B3 ([MCA6281B](#)) as the detection antibody.

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**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.

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**Guarantee**

12 months from date of despatch

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**Health And Safety Information**

Material Safety Datasheet documentation #10040 available at:

<https://www.bio-rad-antibodies.com/SDS/MCA6280GA>

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**Regulatory**

For research purposes only

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## Related Products

## Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Rabbit Anti Mouse IgG (STAR8...)	<a href="#">DyLight®800</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Human Anti Mouse IgG2a (HCA037...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">Alk. Phos.</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight®488</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>

## Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA929\)](#)

## Recommended Useful Reagents

[MOUSE ANTI HUMAN CD258:Biotin \(MCA6281B\)](#)

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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](https://bio-rad-antibodies.com/datasheets)

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