abcam

Product datasheet

Anti-Gr10a antibody ab22120

1 Image

Overview

Product name	Anti-Gr10a antibody
Description	Mouse polyclonal to Gr10a
Host species	Mouse
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Drosophila melanogaster
Immunogen	Fusion protein: MTSPDERKSFWERHEFKFYR , corresponding to amino acids 1/20 of Drosophila melanogaster Gr10a Run BLAST with Run BLAST with
General notes	Produced from outbred CD1 mice This antibody was raised by a genetic immunization technique. Genetic immunization can be used to generate antibodies by directly delivering antigen-coding DNA into the animal, rather than injecting a protein or peptide (Tang *et al.* PubMed: 1545867; Chambers and Johnston PubMed: 12910245; Barry and Johnston PubMed: 9234514). The animal`s cells produce the protein, which stimulates the animal`s immune system to produce antibodies against that particular protein. A vector coding for a partial fusion protein was used for genetic immunisation of a mouse and the resulting serum was tested in Western blot against an *E.coli* lysate containing that partial fusion protein. Genetic immunization offers enormous advantages over the traditional protein-based immunization method. DNA is faster, cheaper and easier to produce and can be produced by standard techniques readily amenable to automation. Furthermore, the antibodies generated by genetic immunization are usually of superior quality with regard to specificity, affinity and recognizing the native protein.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
Storage buffer	Constituents: 50% Glycerol
Purity	Whole antiserum

Primary antibody notes	This antibody was raised by a genetic immunization technique. Genetic immunization can be used to generate antibodies by directly delivering antigen-coding DNA into the animal, rather than injecting a protein or peptide (Tang *et al.* PubMed: 1545867; Chambers and Johnston PubMed: 12910245; Barry and Johnston PubMed: 9234514). The animal`s cells produce the protein, which stimulates the animal`s immune system to produce antibodies against that particular protein. A vector coding for a partial fusion protein was used for genetic immunisation of a mouse and the resulting serum was tested in Western blot against an *E.coli* lysate containing that partial fusion protein. Genetic immunization offers enormous advantages over the traditional protein-based immunization method. DNA is faster, cheaper and easier to produce and can be produced by standard techniques readily amenable to automation. Furthermore, the antibodies generated by genetic immunization are usually of superior quality with regard to specificity, affinity and recognizing the native protein.
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab22120** in the following tested applications.

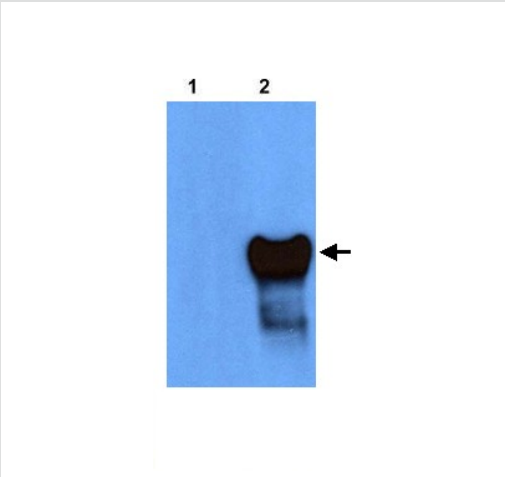
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000. Predicted molecular weight: 48 kDa. This antibody has been tested in Western blot against an *E.coli* lysate containing the partial recombinant fusion protein used as an immunogen. We have no data on detection of endogenous protein.

Target

Relevance	Gr10a has a probable role in the gustatory response.
Cellular localization	Integral membrane protein

Images



Western blot - Anti-Gr10a antibody (ab22120)

All lanes : Anti-Gr10a antibody (ab22120) at 1/1000 dilution

Lane 1 : Total protein extract from E. coli with ~50ng to 100ng of a negative control fusion protein with an irrelevant antigen at 20 ug
Lane 2 : Total protein extract from E. coli with ~50ng to 500ng of the antigen fusion protein at 20 ug

Secondary
All lanes : Rabbit anti-mouse IgG + IgM, (H+L) horseradish peroxidase conjugated at 1/5000 dilution

Predicted band size: 48 kDa

The molecular weight of the band on the western blot does not correspond to the predicted band size above (predicted from the molecular weight of the natural protein) because of the additional mass of the fusion and because the fusion protein only contains a partial fragment of the gene.

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