For Research Use Only

Mouse DFNA5/GSDME Recombinant monoclonal antibody, PBS Only (Detector)

Catalog Number:82955-2-PBS

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
82955-2-PBS

Size:
100ug , Concentration: 1 mg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG33622

GenBank Accession Number:
BC132303

GeneID (NCBI):
54722

UNIPROT ID:
Q9Z2D3

Full Name:
deafness, autosomal dominant 5 (human)

Calculated MW:
57 kDa

Observed MW:
57 kDa

Purification Method:
Protein A purification

CloneNo.:
251415B1

Applications

Tested Applications:
WB, Sandwich ELISA, Indirect ELISA

Species Specificity:
mouse, rat

Product Information

82955-2-PBS targets DFNA5/GSDME as part of a matched antibody pair:

MP02686-1: 82955-3-PBS capture and 82955-2-PBS detection (validated in Sandwich ELISA)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications.Antibody use should be optimized by the end user for each application and assay.

Background Information

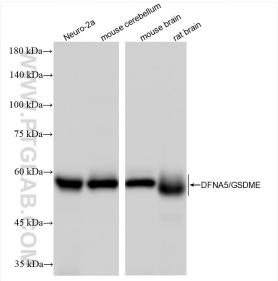
DFNA5 (deafness, autosomal dominant 5), also known as GSDME or ICERE-1, is a 496 amino acid protein that is expressed in cochlea tissue, as well as in placenta, brain, heart, liver, lung and pancreas. Defects in the gene encoding DFNA5 are the cause of non-syndromic sensorineural deafness autosomal dominant type 5 (DFNA5), a form of sensorineural hearing loss that results from damage to one of various structures that receive sound information in the brain.

Storage

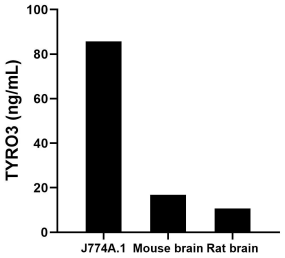
Storage:
Store at -80°C.
Storage Buffer:
PBS only, pH7.3

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

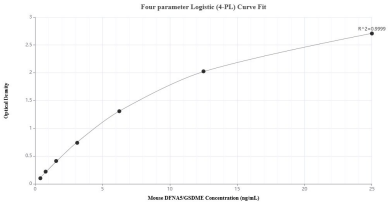
Selected Validation Data



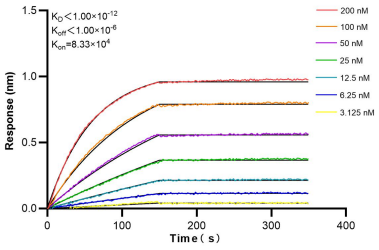
Various lysates were subjected to SDS PAGE followed by western blot with 82955-2-RR (Dfna5 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 82955-2-PBS in a different storage buffer formulation.



The mean DFNA5/GSDME concentration was determined to be 85.78 ng/mL in J744A.1 cell extract based on a 1.3 mg/mL extract load, 16.86 ng/mL in mouse brain tissue extract based on a 7.0 mg/mL extract load and 10.69 ng/mL in rat brain tissue extract based on a 8.2 mg/mL extract load.



Sandwich ELISA standard curve of MP02686-1, Mouse DFNA5/GSDME Recombinant Matched Antibody Pair - PBS only. 82955-3-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag33622. 82955-2-PBS was HRP conjugated as the detection antibody. Range: 0.391-25 ng/mL



Biolayer interferometry (BLI) kinetic assays of 82955-2-RR against Mouse DFNA5/GSDME were performed. The affinity constant is below 1 pM.