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Datasheet for 200-3138

Anti-Peroxidase (Mouse) Antibody

Overview

Description:	Anti-Peroxidase (Horseradish) (MOUSE) Antibody (BULK ORDER) - 200-3138
Item No.:	200-3138
Size:	50 mg
Applications:	ELISA, WB, IF
Reactivity:	Peroxidase
Host Species:	Mouse

Product Details

Background:	Horse Radish Peroxidase (HRP) is an enzyme that utilize organic peroxide compounds as electron donors. Naturally provides protection for plants against pathogens, but can be utilized in molecular biology to convert various substrates to detectable compounds (such as in Western Blotting and ELISAs). Anti-Peroxidase (Horseradish) (Mouse) Antibody is ideal for investigators in Microbiology, Immunology, and Cell Biology research.
Synonyms:	Mouse anti-peroxidase antibody, mouse anti-HRP, Horseradish peroxidase
Host Species:	Mouse
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	PRXC, HRPC
Reactivity:	Peroxidase
Immunogen Type:	Native Protein
Immunogen:	Peroxidase [Horseradish]

Purity/Specificity:	Anti-Peroxidase (horseradish) (Mouse) antibody is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Mouse Serum as well as purified and partially purified Peroxidase [Horseradish]. Cross reactivity against Peroxidase from other tissues and species may occur but have not been specifically determined.

Application Details

Tested Applications:	ELISA, WB
Suggested Applications:	IF (Based on references)
Application Note:	Anti-Peroxidase (Horseradish) (Mouse) antibody has been tested by ELISA and western blot and is suitable for dot blot, immunoprecipitation, conjugation, and most immunological methods requiring high titer and specificity.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:1,000 - 1:5,000
IHC:	User Optimized
WB:	1:500 - 1:3,000

Formulation

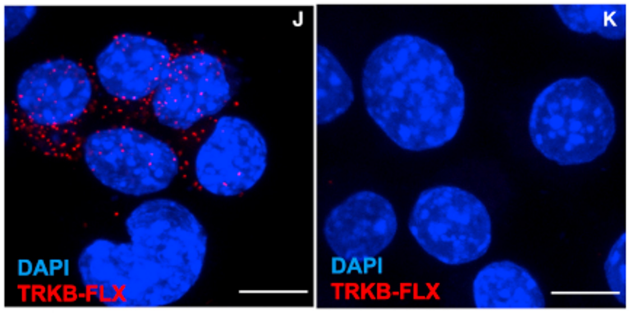
Physical State:	Lyophilized
Concentration:	10.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	None
Stabilizer:	None
Reconstitution Volume:	5.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

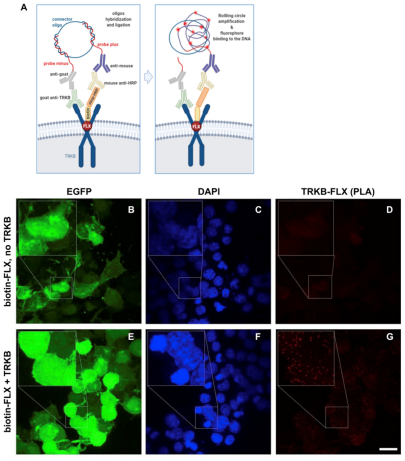
Shipping Condition:	Ambient

Storage Condition:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

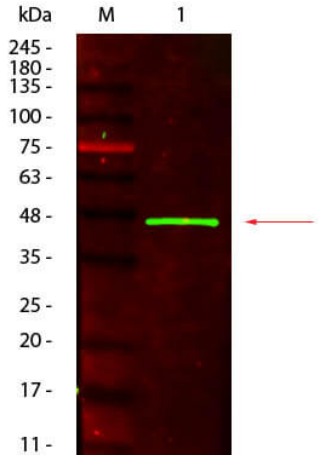
Images



Immunofluorescence Microscopy
Antidepressants bind to TRKB transmembrane domain.
(J) In situ PLA demonstrates close proximity between biotinylated fluoxetine and TRKB on TRKB-expressing N2A cells (red dots).
(K) No PLA signal is seen in cells not expressing TRKB. Blue, DAPI; scale bar, 10 µm.
Samples were incubated overnight at 4°C with a mix of goat anti-TRKB (1:1000) and mouse anti-HRP (1:1000, p/n 200-3138) diluted in Duolink antibody diluent.
Fig 2.
PMID: 33606976



Immunofluorescence Microscopy
Antidepressants bind to TRKB in the intact cells.
(A) Schematic representation of the in situ proximity ligation assay (PLA) between TRKB and biotinylated fluoxetine.
(B-G) HEK cells were transfected to express TRKB and farnesylated GFP and were exposed to biotinylated fluoxetine (10uM/15min). The cells were fixed in PFA and the PLA reaction was conducted in permeabilized cells.
(B-D) No signal from TRKB-FLX interaction was observed when cells were not transfected to express TRKB.
(E-G) positive signal of TRKB-FLX (PLA). Scale bar: 20 µm. Zoom in square: 2.5x.
Samples were incubated overnight at 4°C with a mix of goat anti-TRKB (1:1000) and mouse anti-HRP (1:1000, p/n 200-3138) diluted in Duolink antibody diluent.
Fig S5, related to Figure 2.
PMID: 33606976



Western Blot
Western Blot of Mouse anti-Peroxidase (Horseradish) Antibody. Lane 1: Peroxidase (Horseradish). Load: 100ng per lane. Primary antibody: Mouse anti-Peroxidase (Horseradish) Antibody at 1:1,000 overnight at 4°C. Secondary antibody: Fluorescein conjugated mouse secondary antibody at 1:40,000 for 30 min at RT. Block: (MB-070 for 30 minutes at RT. Predicted/Observed size: 44 kDa, 44 kDa for Horseradish Peroxidase.

References

- Casarotto PC et al. Antidepressant drugs act by directly binding to TRKB neurotrophin receptors. *Cell.* (2021)

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