

Purified anti-Grp75 (Mortalin) Antibody (Previously Covance catalog# MMS-5164)

Catalog# / Size	818802 / 25 µL 818801 / 100 µL
Clone	N52A/42
Regulatory Status	RUO
Other Names	Stress-70 protein, mitochondrial, GRP-75, p66 MOT, C3H-specific antigen, heat shock protein 9A, heat shock protein, A, peptide-binding protein 74, heat shock 70 kD protein 9, heat shock protein cognate 74, 74 kD, A, 75 kD glucose-regulated protein
Previously	Covance Catalog# MMS-5164
Isotype	Mouse IgG1, κ
Description	Glucose-regulated protein, 75 kD (Grp75), also known as heat shock protein 9A, Stress-70 protein, p66 MOT, and Mortalin, is an ubiquitously expressed chaperone protein that is expressed predominantly in mitochondria and is involved in mitochondrial localization, intracellular trafficking, and receptor internalization.

Product Details

Verified Reactivity	Human, Mouse, Rat, Drosophila
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	This monoclonal antibody was raised against a fusion protein corresponding to amino acids 551-766 of mouse SALM2.
Formulation	Phosphate-buffered solution.
Preparation	The antibody was purified by affinity chromatography.
Concentration	1 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C. Please note the storage condition for this antibody has been changed from -20°C to between 2°C and 8°C. You can also check your vial or your CoA to find the most accurate storage condition for this antibody.
Application	WB - Quality tested IHC-P - Verified
Recommended Usage	Each lot of this antibody is quality control tested by Western blotting . For Western blotting, the suggested use of this reagent is 0.5 - 10 µg per ml. For immunohistochemistry on formalin-fixed paraffin-embedded, a concentration of 10.0 µg/ml is suggested. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes	Reactivity to Drosophila was only verified with the purified format.
Additional Product Notes	For Western blotting, the suggested use of this reagent is 1 - 5 µg/ml in human, mouse, and rat and 0.5 - 10 µg/ml in Drosophila.
Product Citations	1. Blunsom NJ, <i>et al.</i> 2018. <i>Biochim Biophys Acta.</i> 1863:284. PubMed
RRID	AB_2783394 (BioLegend Cat. No. 818802) AB_2564824 (BioLegend Cat. No. 818801)

Antigen Details

Structure	Expected MW: 70 kD
Biology Area	Cell Biology, Mitochondrial Function, Neuroscience, Neuroscience Cell Markers
Molecular Family	Mitochondrial Markers
Gene ID	15526

Related Protocols

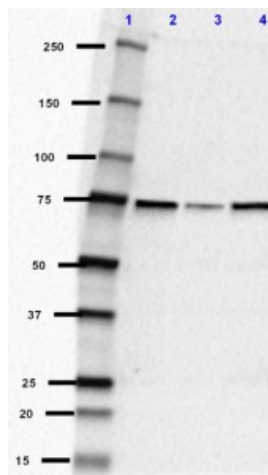
[Western Blotting Protocol](#)

[Immunohistochemistry Protocol for Paraffin-Embedded Sections](#)

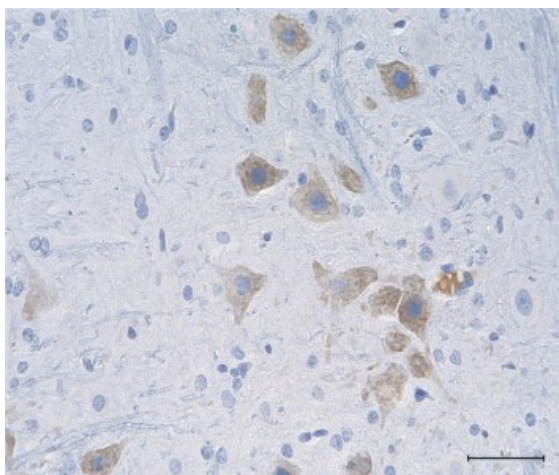
Other Formats

Purified anti-Grp75 (Mortalin), HRP anti-Grp75 (Mortalin)

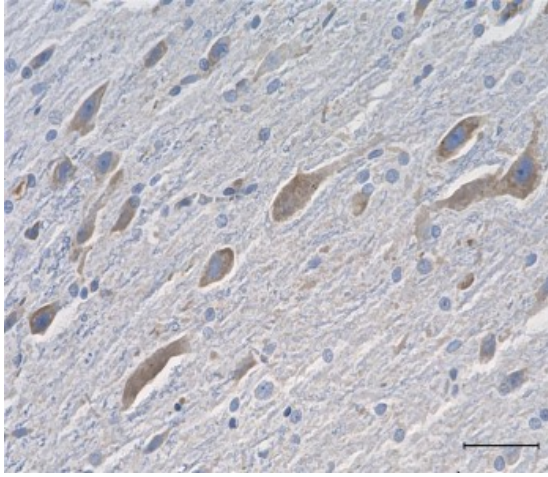
Product Data



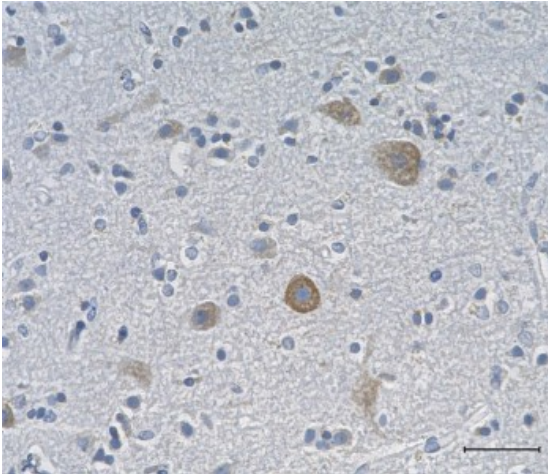
Western blot of purified anti-Grp75 (Mortalin) antibody (clone N52A/42). Lane 1: Molecular weight marker; Lane 2: 20 μ g of human brain membrane lysate; Lane 3: 20 μ g of mouse brain membrane lysate; Lane 4: 20 μ g of rat brain membrane lysate. The blot was incubated with 5 μ g/mL of the primary antibodies overnight at 4°C, followed by incubation with HRP labeled goat anti-mouse IgG (Cat. No. 405301). Enhanced chemiluminescence was used as the detection system.



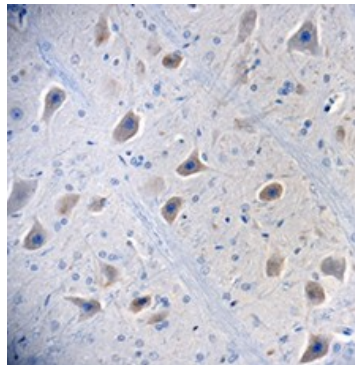
IHC staining of purified anti-Grp75 (Mortalin) antibody (clone N52A/42) on formalin-fixed paraffin-embedded mouse brain tissue. Following antigen retrieval using Sodium Citrate H.I.E.R (Cat. No. 928602), the tissue was incubated with 10 μ g/ml of the primary antibody overnight at 4°C. BioLegend's Ultra-Streptavidin (USA) HRP kit (Multi-Species, DAB, Cat. No. 929901) was used for detection followed by hematoxylin counterstaining, according to the protocol provided. The image was captured with a 40X objective. Scale bar: 50 μ m



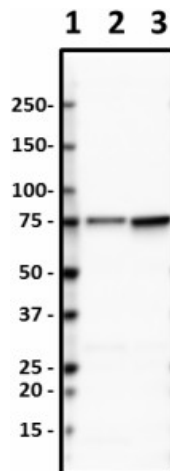
IHC staining of purified anti-Grp75 (Mortalin) antibody (clone N52A/42) on formalin-fixed paraffin-embedded rat brain tissue. Following antigen retrieval using Sodium Citrate H.I.E.R (Cat. No. 928602), the tissue was incubated with 10 µg/ml of the primary antibody overnight at 4°C. BioLegend's Ultra-Streptavidin (USA) HRP kit (Multi-Species, DAB, Cat. No. 929901) was used for detection followed by hematoxylin counterstaining, according to the protocol provided. The image was captured with a 40X objective. Scale bar: 50 µm



IHC staining of purified anti-Grp75 (Mortalin) antibody (clone N52A/42) on formalin-fixed paraffin-embedded human brain tissue. Following antigen retrieval using Sodium Citrate H.I.E.R (Cat. No. 928602), the tissue was incubated with 10 µg/ml of the primary antibody overnight at 4°C. BioLegend's Ultra-Streptavidin (USA) HRP kit (Multi-Species, DAB, Cat. No. 929901) was used for detection followed by hematoxylin counterstaining, according to the protocol provided. The image was captured with a 40X objective. Scale bar: 50 µm



IHC staining of purified anti-Grp75 (Mortalin) antibody (clone N52A/42) on formalin-fixed paraffin-embedded rat brain tissue. Following antigen retrieval using Sodium Citrate H.I.E.R (Cat. No. 928602), the tissue was incubated with 10 µg/ml of the primary antibody overnight at 4°C. BioLegend's Ultra-Streptavidin (USA) HRP kit (Multi-Species, DAB, Cat. No. 929901) was used for detection followed by hematoxylin counterstaining, according to the protocol provided. The image was captured with a 40X objective.



Western blot of purified anti-Grp75 (Mortalin) antibody (N52A/42). Lane 1: Molecular weight marker; Lane 2: 20 µg of Drosophila head lysate; Lane 3: 20 µg of Drosophila S2 (embryonic) cell lysate. The blot was incubated with 0.5 µg/mL of the primary antibody overnight at 4°C, followed by incubation with HRP-labeled goat anti-mouse IgG (Cat. No. 436302). Enhanced chemiluminescence was used as the detection system.

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