
Monoclonal Antibody Frataxin
To Human/Porcine Friedreich ataxia protein

Monoclonal antibody 2FRA-1G2 recognizes human/porcine Frataxin. Frataxin is localized to the mitochondrion. The function of frataxin is not entirely clear, but it seems to be involved in assembly of iron-sulfur clusters. It has been proposed to act as either an iron chaperone or an iron storage protein.

Product Number:	T-1431 (Lot 01PO1213)
Clone:	2FRA-1G2
Host species, isotype:	Mouse IgG1 kappa
Quantity:	100µg
Format:	Affinity purified, lyophilized Reconstitute by adding 0.5ml distilled water. This stock solution contains 0.5mg/ml IgG, phosphate buffered saline pH 7.2 (PBS), 5mg/ml bovine serum albumin (BSA) as a stabilizer and 0.01% Kathon as a preservative.
Stability:	Original vial: 1 year at 4° - 8°C Stock solution or aliquots thereof: 1 year at -20°C. Avoid repeated thawing and freezing.
Applications:	Tested for immunohistochemistry (IHC). Approximate working dilution for IHC: Frozen sections: not tested Paraffin sections: 20µg/ml (1:10); Proteinase K pretreatment for antigen retrieval recommended. Optimal dilutions should be determined by the end user. Suggested positive control: swine brain cortex Please see www.bma.ch for protocols and general information.
Immunogen:	TrpE-Frataxin full length.
Antigen, epitope:	The antigen is Frataxin, the epitope has not been further characterized.

Antigen distribution: The antigen has been described in the heart, peripheral blood lymphocytes and dermal fibroblasts.

Specificity: **Human/Porcine:** Frataxin.

Other: Not tested.

Selected references

Sturm B, Bistrich U, Schranzhofer M, Sarsero JP, Rauhen U, Scheiber-Mojdehkar B, de Groot H, Ioannou P, Petrat F.: Friedreich's ataxia, no changes in mitochondrial labile iron in human lymphoblasts and fibroblasts: a decrease in antioxidative capacity? J Biol Chem. 2005 Feb 25; 280(8): 6701-8.

Campuzano V, Montermini L, Lutz Y, Cova L, Hindelang C, Jiralerspong S, Trottier Y, Kish SJ, Faucheux B, Trouillas P, Authier FJ, Dürr A, Mandel JL, Vescovi A, Pandolfo M, Koenig M.: Frataxin is reduced in Friedreich ataxia patients and is associated with mitochondrial membranes. Hum Mol Genet. 1997 Oct; 6(11): 1771-80.

For *in vitro* research only. This product contains Kathon as a preservative.