

# Product Datasheet

## Mitochondria Antibody (113-1)

### NBP2-32980-0.1mg

Unit Size: 0.1 mg

Store at 4C.

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**NBP2-32980-0.1mg**

Mitochondria Antibody (113-1)

Product Information	
Unit Size	0.1 mg
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	113-1
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS with 0.05% BSA
Target Molecular Weight	60 kDa

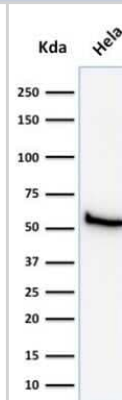
Product Description	
Description	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA at 1.0 mg/ml. (NBP2-34517)  Antibody with azide - store at 2 to 8C.
Host	Mouse
Species	Human, Mouse (Negative), Rat (Negative)
Reactivity Notes	Does not react with Mouse or Rat.
Marker	Marker for Human Cells, Granular RCC s & Salivary Tumor
Specificity/Sensitivity	This monoclonal antibody recognizes a 60kDa antigen associated with the mitochondria in human cells. It can be used to stain mitochondria in cell or tissue preparations and can be used as a mitochondrial marker in subcellular fractions. It produces a spaghetti-like pattern in normal and malignant cells. This antibody is an excellent marker for human cells in xenographic model research. It reacts specifically with human cells, including neurons and embryonic stem cells. Immunostaining pattern with anti-mitochondrial monoclonal antibody has been reported as a useful discriminatory adjunct in the complex differential diagnosis of granular renal cell tumors. Reportedly, this monoclonal antibody facilitates the classification of salivary tumors.
Immunogen	Semi-Purified mitochondrial preparation

Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1-2 ug/ml, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1-2 ug/ml, Immunohistochemistry-Paraffin 1-2 ug/ml, Immunohistochemistry-Frozen 0.5-1.0ug/ml
Application Notes	Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues is enhanced by heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined.

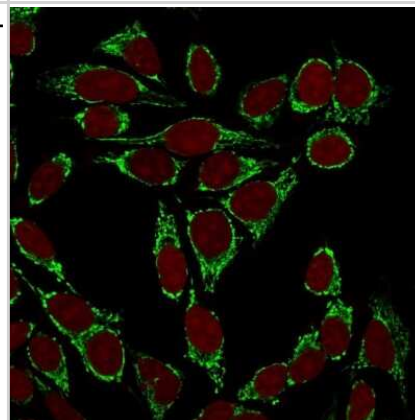


## Images

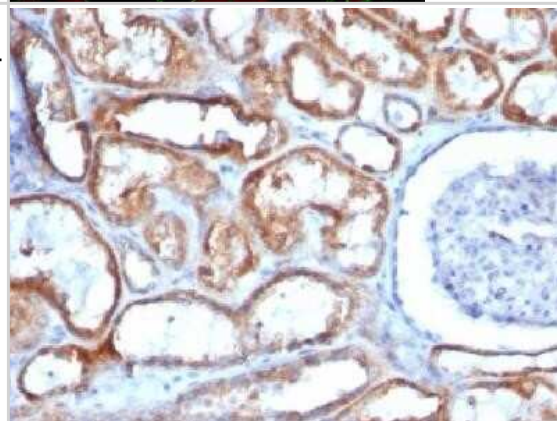
Western Blot: Mitochondria Antibody (113-1) [NBP2-32980] - Western Blot analysis of HeLa cell lysate using Mitochondria Antibody (113-1).



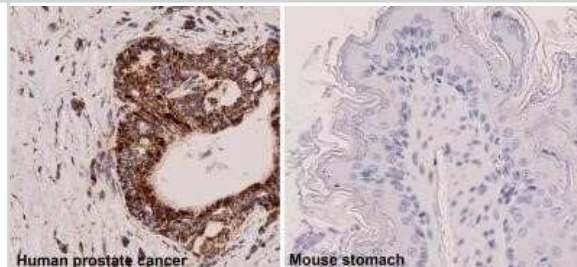
Immunocytochemistry/Immunofluorescence: Mitochondria Antibody (113-1) [NBP2-32980] - Confocal immunofluorescence image of HeLa cells using labeled is Green (CF488) and Red Dot is used to label the nuclei Red.



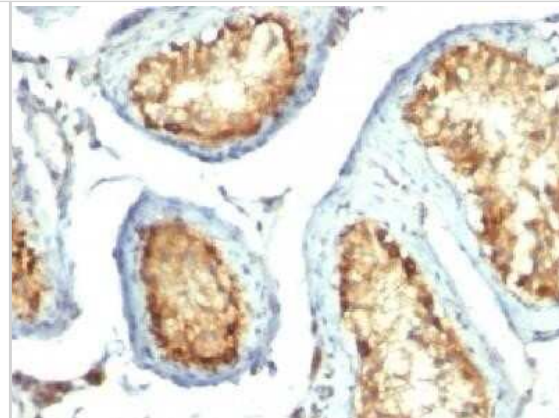
Immunohistochemistry-Paraffin: Mitochondria Antibody (113-1) [NBP2-32980] - Immunohistochemistry-Paraffin: Mitochondria Antibody (113-1) - Azide and BSA Free [NBP2-34517] - Formalin-fixed paraffin-embedded human Renal cell carcinoma stained with Mitochondria Monoclonal antibody (113-1). Image using the Azide and BSA Free form of this antibody.



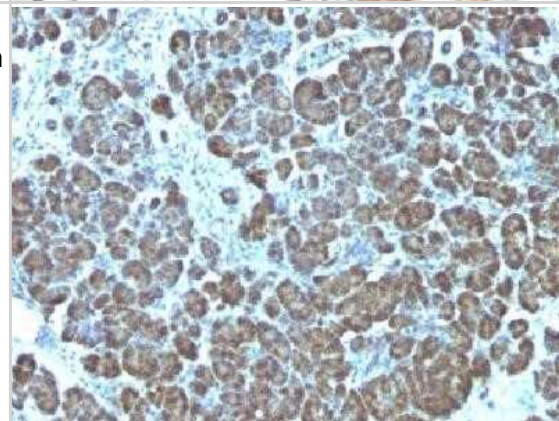
Immunohistochemistry-Paraffin: Mitochondria Antibody (113-1) [NBP2-32980] - Analysis using the Biotin conjugate of NBP2-32980. Staining of human prostate cancer tissue (left) and mouse stomach tissue (right). Image from verified customer review.



Immunohistochemistry-Paraffin: Mitochondria Antibody (113-1) [NBP2-32980] - Formalin-fixed, paraffin-embedded human testicular carcinoma stained with mitochondria monoclonal antibody (113-1). Image using the Azide and BSA Free form of this antibody.



Immunohistochemistry-Paraffin: Mitochondria Antibody (113-1) [NBP2-32980] - Formalin-fixed paraffin-embedded human pancreas stained with mitochondria monoclonal antibody (113-1). Image using the Azide and BSA Free form of this antibody.



## Publications

Chang TH, Shanti RM, Liang Y et al. LGR5+ epithelial tumor stem-like cells generate a 3D-organoid model for ameloblastoma Cell Death Dis 2020-05-07 [PMID: 32382005] (IHC-Fr, Human)



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### **Products Related to NBP2-32980-0.1mg**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NBP2-29448	Mitochondria Isolation Kit

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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