RENT1 / hUPF1 Antibody

Mouse Monoclonal Antibody [Clone NY1.1.1B6]

Catalog No	Format	Size
5976-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug
5976-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
5976-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug

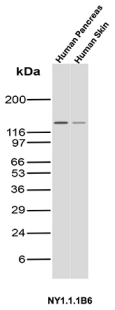
Applications	Tested Dillution	Note

Product Details

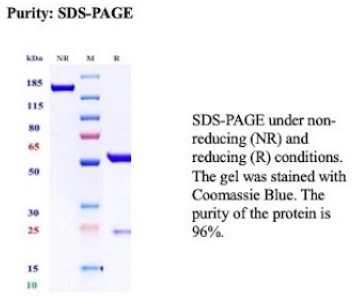
Clone	NY1.1.1B6
Gene Name	UPF1
Immunogen	Recombinant human UPF1 protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2b / Kappa
Mol. Weight of Antigen	124kDa
Cellular Localization	Cytoplasm, Nucleus
Species Reactivity	Human
Positive Control	HeLa cells.

**Optimal dilution for a specific application should be determined.*

Product Images for RENT1 / hUPF1 Antibody



Western Blot Analysis of human pancreas and human skin tissue lysates using Cyclin A2 Mouse Monoclonal Antibody (NY1.1.1B6).



SDS-PAGE Analysis of Purified RENT1 / hUPF1 Mouse Monoclonal Antibody (NY1.1.1B6). Confirmation of Purity and Integrity of Antibody.

Specificity & Comments

In eukaryotes, it is essential to have the ability to detect and degrade transcripts that lack full coding potential. Nonsense-mediated RNA decay (NMD) protects the organism by avoiding the translation of truncated peptides with dominant negative or deleterious gain-of-function potential. Rent1, a mammalian ortholog of Upflp, is essential for embryonic viability. Rent1 (also designated regulator of nonsense transcripts and HUpf1) contains an N-terminal zinc finger-like domain, NTPase domains and a region comprised of domains that define Rent1 as a superfamily group I helicase. Rent1 protein has nucleic-acid-dependent ATPase activity and 5' to 3' helicase activity. In addition, Rent1 is an RNA-binding protein whose activity is modulated by ATP and directly interacts with Rent2, which is a mammalian homolog of Upf2p. Two mammalian orthologs to Upf3p, Rent3a and Rent3b, are encoded by two separate genes. Rent3b (also known as Rent3X) is encoded by a X-linked gene and localizes primarily to the nucleus, while Rent1 and Rent2 localize primarily in the cytoplasm. Specific Rent3 protein interactions with Y14 and spliced mRNA suggest Rent3a and Rent3b serve as a link between splicing and NMD in the cytoplasm.

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Cancer, Epigenetics

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.