GPN1 / XAB1 (DNA Repair & Protein Synthesis) Antibody

Mouse Monoclonal Antibody [Clone GPN1/2350]

Catalog No	Format	Size
11321-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
11321-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
11321-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

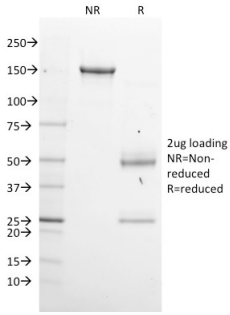
Applications	Tested Dillution	Note
Western Blot (WB)	2-4ug/ml	

Product Details

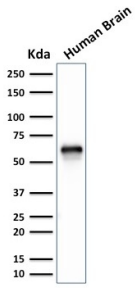
Clone	GPN1/2350
Gene Name	GPN1
Immunogen	Recombinant full-length human GPN1 protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	42kDa
Cellular Localization	Cytoplasm, Nucleus
Species Reactivity	Human
Positive Control	Pancreas, Testis, Thyroid or Bladder.

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

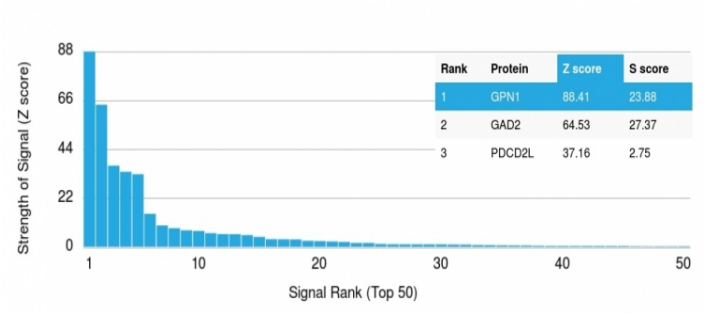
Product Images for GPN1 / XAB1 (DNA Repair & Protein Synthesis) Antibody



SDS-PAGE Analysis of Purified GPN1 Mouse Monoclonal Antibody (GPN1/2350). Confirmation of Purity and Integrity of Antibody.



Western Blot Analysis of human Brain tissue lysate using GPN1 Mouse Monoclonal Antibody (GPN1/2350).



Analysis of Protein Array containing more than 19,000 full-length human proteinsusing GPN1 Mouse Monoclonal Antibody (GPN1/2350) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.

Specificity & Comments

GPN1 is involved in protein synthesis events. It is expressed ubiquitously with highest expression in testis. It binds to the RNA polymerase II- (Poll II) associated proteins RPAP1-3 and to XPA (a protein involved in DNA repair mechanisms), thereby forming an interface with Poll II. Via this interaction, GPN1 is thought to mediate the involvement of Pol II in both protein complex formation and protein chaperone/ scaffolding activities. In addition, GPN1 interacts with components of the integrator and molecular chaperone complexes, further implicating GPN1 in protein assembly. GPN1 contains a cluster of acidic amino acids in its C-terminal region and a series of sequences similar to those found in GTP-binding proteins in its N-terminal region, suggesting that GPN1 has possible GTPase activity.

Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. 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.

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.