

36-2083: Anti-GPN1 / XAB1 (DNA Repair & Protein Synthesis) Monoclonal Antibody (Clone: GPN1/2350)

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| Clonality : | Monoclonal |
| Clone Name : | GPN1/2350 |
| Application : | ELISA, WB |
| Reactivity : | Human |
| Gene : | GPN1 |
| Gene ID : | 11321 |
| Uniprot ID : | Q9HN4 |
| Alternative Name : | ATP(GTP) binding protein (ATPBD1A); GPN-loop GTPase 1; GPN1; MBD2-interacting protein (MBDin); NTPBP; RNA polymerase II associated protein 4 (RPAP4); XPA-binding protein 1 (XAB1) GTPase |
| Isotype : | Mouse IgG1, kappa |
| Immunogen Information : | Recombinant full-length human GPN1 protein |

Description

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.

Product Info

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| Amount : | 20 µg / 100 µg |
| Content : | 200µg/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 condition : | Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. |

Application Note

ELISA (For coating, order antibody without BSA); Western Blot (1-2ug/ml);

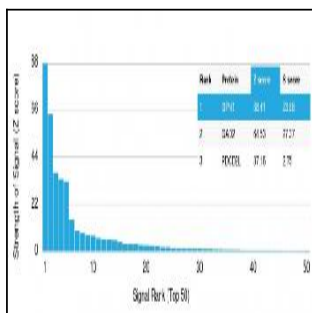


Fig.1: Analysis of Protein Array containing more than 19,000 full-length human proteins using GPN1 Mouse Monoclonal Antibody (GPN1/2350) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAB) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ 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 HuProt™ 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 be 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.

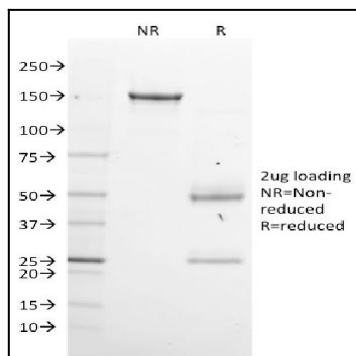


Fig. 2: SDS-PAGE Analysis Purified GPN1 Mouse Monoclonal Antibody (GPN1/2350). Confirmation of Purity and Integrity of Antibody.

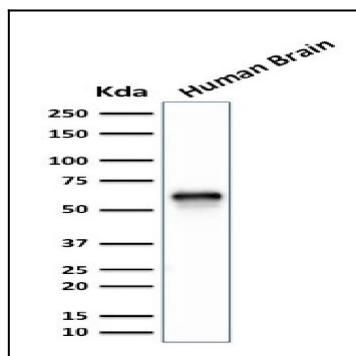


Fig. 3: Western Blot Analysis of human Brain tissue lysate using GPN1 Mouse Monoclonal Antibody (GPN1/2350).