

GPN1 / XAB1 Antibody (clone 3E1)
Mouse Monoclonal Antibody
Catalog # ALS13480**Specification**

GPN1 / XAB1 Antibody (clone 3E1) - Product Information

Application	WB, IF
Primary Accession	O9HCN4
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	42kDa KDa

GPN1 / XAB1 Antibody (clone 3E1) - Additional Information**Gene ID** 11321**Other Names**

GPN-loop GTPase 1, 3.6.5.-, MBD2-interacting protein, MBDin, RNAPII-associated protein 4, XPA-binding protein 1, GPN1 {ECO:0000303|PubMed:20855544, ECO:0000312|HGNC:HGNC:17030}

Reconstitution & Storage

Store at -20°C. Aliquot to avoid freeze/thaw cycles.

Precautions

GPN1 / XAB1 Antibody (clone 3E1) is for research use only and not for use in diagnostic or therapeutic procedures.

GPN1 / XAB1 Antibody (clone 3E1) - Protein Information**Name** GPN1 {ECO:0000303|PubMed:20855544, ECO:0000312|HGNC:HGNC:17030}**Function**

Small GTPase required for proper nuclear import of RNA polymerase II (RNAPII) (PubMed:20855544, PubMed:21768307). May act at an RNAP assembly step prior to nuclear import (PubMed:21768307). Forms an interface between the RNA polymerase II enzyme and chaperone/scaffolding proteins, suggesting that it is required to connect RNA polymerase II to regulators of protein complex formation (PubMed:17643375). May be involved in nuclear localization of XPA (PubMed:11058119).

Cellular Location

Cytoplasm. Nucleus Note=Shuttles between the nucleus and the cytoplasm

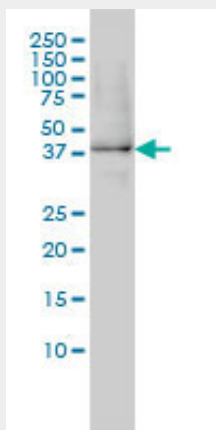
Tissue Location

Expressed ubiquitously.

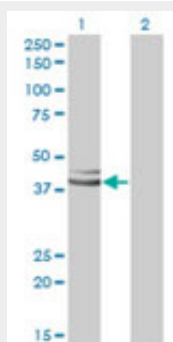
GPN1 / XAB1 Antibody (clone 3E1) - Protocols

Provided below are standard protocols that you may find useful for product applications.

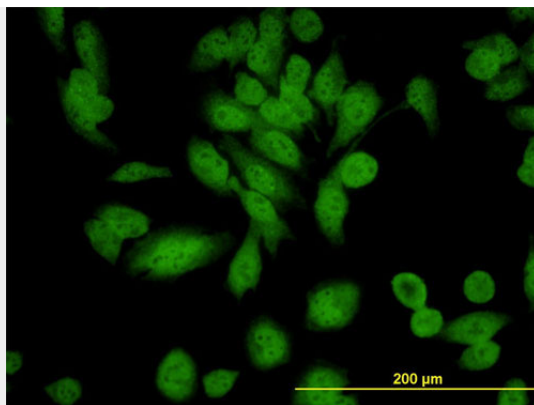
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

GPN1 / XAB1 Antibody (clone 3E1) - Images

XAB1 monoclonal antibody clone 3E1 Western blot of XAB1 expression in HL-60.



Western blot of XAB1 expression in transfected 293T cell line by XAB1 monoclonal antibody, clone...



Immunofluorescence of monoclonal antibody to XAB1 on HeLa cell (antibody concentration 10 ug/ml).

GPN1 / XAB1 Antibody (clone 3E1) - Background

Small GTPase required for proper nuclear import of RNA polymerase II (RNAPII) (PubMed:20855544, PubMed:21768307). May act at an RNAP assembly step prior to nuclear import (PubMed:21768307). Forms an interface between the RNA polymerase II enzyme and chaperone/scaffolding proteins, suggesting that it is required to connect RNA polymerase II to regulators of protein complex formation (PubMed:17643375). May be involved in nuclear localization of XPA (PubMed:11058119).

GPN1 / XAB1 Antibody (clone 3E1) - References

Nitta M.,et al.Nucleic Acids Res. 28:4212-4218(2000).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Hillier L.W.,et al.Nature 434:724-731(2005).
Bienvenut W.V.,et al.Submitted (MAR-2009) to UniProtKB.
Stanchi F.,et al.Yeast 18:69-80(2001).