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Anti-GBP4 Antibody

Catalog # AP53300

Product Information

Application	WB, IHC
Primary Accession	Q96PP9
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	73165

Additional Information

Gene ID	115361
Other Names	Guanylate-binding protein 4; GTP-binding protein 4; GBP-4; Guanine nucleotide-binding protein 4
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human GBP4. The exact sequence is proprietary.
Dilution	WB~~ 1:1000 IHC~~1:100~500
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

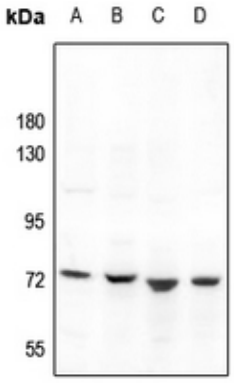
Protein Information

Name	GBP4 {ECO:0000303|Ref.1, ECO:0000312|HGNC:HGNC:20480}
Function	Interferon (IFN)-inducible GTPase that plays important roles in innate immunity against a diverse range of bacterial, viral and protozoan pathogens (By similarity). Negatively regulates the antiviral response by inhibiting activation of IRF7 transcription factor (By similarity).
Cellular Location	Golgi apparatus membrane. Cytoplasm Nucleus. Cytoplasm, perinuclear region. Note=Heterodimers with GBP1, GBP2 and GBP5 localize in the compartment of the prenylated GBPs: with GBP1 in a vesicle-like compartment, with GBP2, around the nucleus and with GBP5, at the Golgi apparatus.

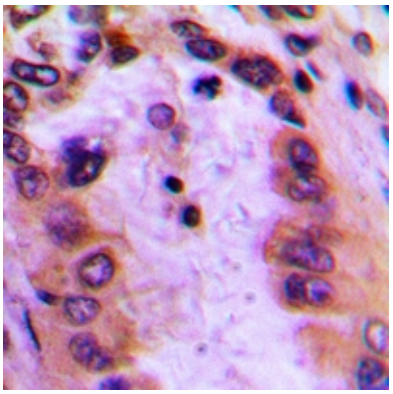
References

Avdalovic A.,et al.Submitted (JUL-2000) to the EMBL/GenBank/DDBJ databases.
Bechtel S.,et al.BMC Genomics 8:399-399(2007).
Jikuya H.,et al.DNA Res. 10:49-57(2003).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Tripal P.,et al.J. Interferon Cytokine Res. 27:44-52(2007).

Images



Western blot analysis of GBP4 expression in PC12 (A), AML12 (B), HCT116 (C), H1792 (D) whole cell lysates. (Predicted band size: 73 kD; Observed band size: 73 kD)



Immunohistochemical analysis of GBP4 staining in human lung cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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