

**DATASHEET**

**NBPF-pan Rabbit Polyclonal Antibody**

CAT. NO. APA08144

**KEY FEATURES**

Target	NBPF-pan	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Polyclonal
Applications	WB, IHC	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		Storage at-20°C

**BACKGROUND**

This gene is a member of the neuroblastoma breakpoint family (NBPF) which consists of dozens of recently duplicated genes primarily located in segmental duplications on human chromosome 1. This gene family has experienced its greatest expansion within the human lineage and has expanded, to a lesser extent, among primates in general. Members of this gene family are characterized by tandemly repeated copies of DUF1220 protein domains. Gene copy number variations in the human chromosomal region 1q21.1, where most DUF1220 domains are located, have been implicated in a number of developmental and neurogenetic diseases such as microcephaly, macrocephaly, autism, schizophrenia, cognitive disability, congenital heart disease, neuroblastoma, and congenital kidney and urinary tract anomalies.

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IHC	1:50 - 1:100

\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**PRODUCT OVERVIEW**

Description	Rabbit polyclonal antibody to NBPF-pan
Specificity	Recognizes endogenous levels of NBPF-pan protein.
Antibody Type	Primary antibody
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human NBPF-pan. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 167; Observed: 99; 108; 139 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	NBPF12; COAS1; KIAA1245; Neuroblastoma breakpoint family member 12; Chromosome 1 amplified sequence 1; NBPF10; Neuroblastoma breakpoint family member 10; NBPF16; Neuroblastoma breakpoint family member 16; NBPF1; KIAA1693; Neuroblastoma breakpoint family member 1; NBPF9; Neuroblastoma breakpoint family member 9; NBPF20; Neuroblastoma breakpoint family member 20; NBPF15; Neuroblastoma breakpoint family member 15; NBPF14; Neuroblastoma breakpoint family member 14
Gene Symbol	NBPF12
Entrez Gene	55672; 400818; 284565; 25832(Human)
SwissProt	Q5TAG4; Q6P3W6; Q5XJ2; Q3BBV0; Q3BBW0; Q3BBV1; Q8N660; Q5TI25(Human)

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor

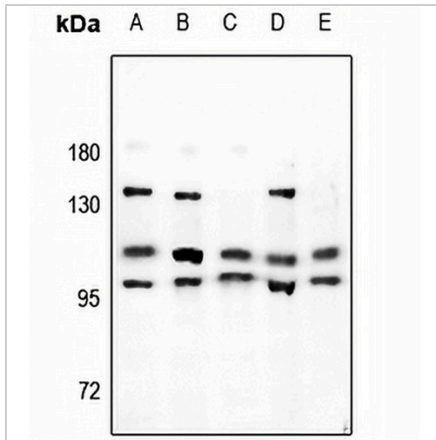
\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above

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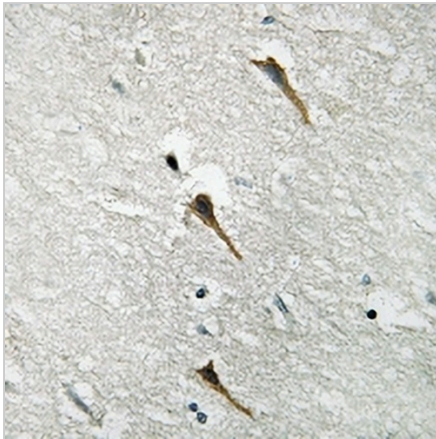
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**DATA**



Western blot analysis of NBPF-pan expression in MCF7 (A), HepG2 (B), U87MG (C), rat brain (D), mouse brain (E) whole cell lysates. (Predicted band size: 167; 435; 139 kD; Observed band size: 99; 108; 139 kD)



Immunohistochemical analysis of NBPF-pan staining in human brain 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.

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.