

MRF/C11orf9 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP54419

Product Information

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q9Y2G1
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	124397
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MRF
Epitope Specificity	401-500/1151
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane. Nucleus.
SIMILARITY	Belongs to the MRF family. Contains 1 NDT80 DNA-binding domain.
SUBUNIT	Belongs to the MRF family. Contains 1 NDT80 DNA-binding domain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	C11orf9 (chromosome 11 open reading frame 9), also known as MRF (myelin gene regulatory factor), Ndt80, KIAA0954 or MGC10781, is a 1,151 amino acid single-pass membrane protein that localizes to nucleus. A member of the MRF family, C11orf9 is expressed in the ARPE-19 cell line, brainstem, uterus and, to a lesser extent, in basal ganglion and liver. C11orf9 is weakly expressed in cerebellum and retina. C11orf9 contains one NDT80 DNA-binding domain and acts as a transcription factor that is required for expression of central nervous system (CNS) myelin genes such as MBP and MOG, thereby playing a central role in oligodendrocyte maturation and CNS myelination. C11orf9 exists as two alternatively spliced isoforms and is encoded by a gene located on human chromosome 11, which consists of approximately 135 million base pairs and 1,400 genes. Chromosome 11 makes up around 4% of human genomic DNA and is considered a gene and disease association dense chromosome.

Additional Information

Gene ID	745
Other Names	Myelin regulatory factor, 3.4.-., Myelin gene regulatory factor, Myelin regulatory factor, N-terminal, Myelin regulatory factor, C-terminal, MYRF, C11orf9, KIAA0954, MRF
Target/Specificity	Expressed in lung, ARPE-19 cell line, brainstem, uterus and, to a lesser extent,

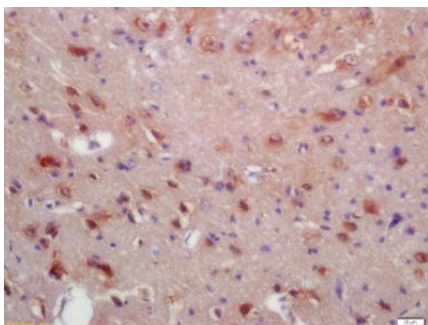
in basal ganglion and liver. Weakly expressed in cerebellum and retina.

Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	MYRF
Synonyms	C11orf9, KIAA0954, MRF
Function	[Myelin regulatory factor]: Constitutes a precursor of the transcription factor. Mediates the autocatalytic cleavage that releases the Myelin regulatory factor, N-terminal component that specifically activates transcription of central nervous system (CNS) myelin genes (PubMed: 23966832).
Cellular Location	[Myelin regulatory factor]: Endoplasmic reticulum membrane; Single-pass membrane protein [Myelin regulatory factor, C-terminal]: Endoplasmic reticulum membrane; Single- pass membrane protein
Tissue Location	Expressed in lung, ARPE-19 cell line, brainstem, uterus and, to a lesser extent, in basal ganglion and liver. Weakly expressed in cerebellum and retina.

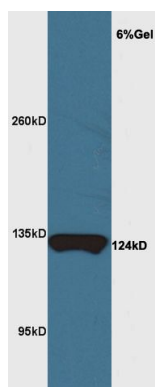
Images



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-MRF/C11orf9 Polyclonal Antibody, Unconjugated(AP54419) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



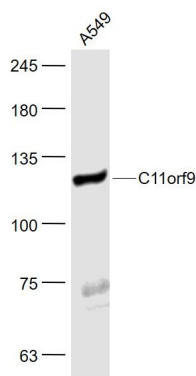
Sample: Brain (Mouse) Lysate at 40 ug

Primary: Anti-MRF/C11orf9 (AP54419) at 1/300 dilution

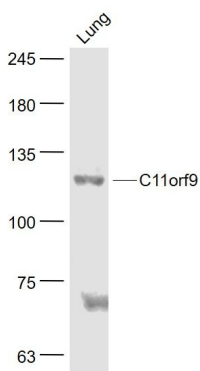
Secondary: HRP conjugated Goat-Anti-rabbit IgG (bs-0295G-HRP) at 1/5000 dilution

Predicted band size: 124 kD

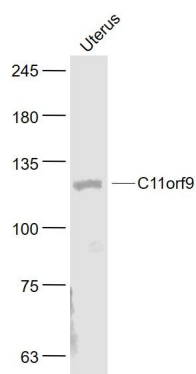
Observed band size: 124 kD



Sample:
 A549(Human) Cell Lysate at 30 ug
 Primary: Anti- MRF/C11orf9 (AP54419) at 1/1000 dilution
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
 Predicted band size: 124 kD
 Observed band size: 124 kD



Sample:
 Lung (Mouse) Lysate at 40 ug
 Primary: Anti- MRF/C11orf9 (AP54419) at 1/1000 dilution
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
 Predicted band size: 124 kD
 Observed band size: 124 kD



Sample:
 Uterus (Mouse) Lysate at 40 ug
 Primary: Anti- MRF/C11orf9 (AP54419) at 1/1000 dilution
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
 Predicted band size: 124 kD
 Observed band size: 124 kD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.