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MOXD1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP56811

Product Information

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q6UVY6
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	69652
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MOXD1
Epitope Specificity	501-600/613
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	Endoplasmic reticulum membrane.
SIMILARITY	Belongs to the copper type II ascorbate-dependent monooxygenase family. Contains 1 DOMON domain.
Post-translational modifications	N-glycosylated.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	MOXD1 is a 613 amino acid single-pass type I membrane protein of the Endoplasmic reticulum that belongs to the copper type II ascorbate-dependent monooxygenase family. Existing as two alternatively spliced isoforms, MOXD1 is expressed in adult spinal cord, adrenal gland, brain, testis, uterus, lung and kidney, as well as fetal liver and brain. MOXD1 is upregulated during replicative senescence in primary fibroblast and umbilical vein endothelial cell cultures, and uses two copper ions per subunit as a cofactor. MOXD1 contains one DOMON domain, undergoes post-translational N-glycosylation and is encoded by a gene that maps to human chromosome 6. Chromosome 6 contains 170 million base pairs, comprises nearly 6% of the human genome and is associated with early onset intestinal cancer, Porphyria cutanea tarda, Parkinson's disease and Stickler syndrome.

Additional Information

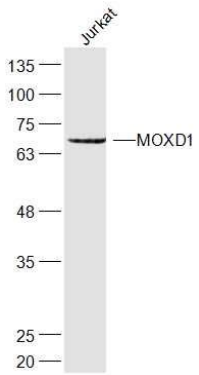
Gene ID	26002
Other Names	DBH-like monooxygenase protein 1, 1.14.17.-, Monooxygenase X, MOXD1, MOX
Target/Specificity	Highly expressed in lung, kidney, brain and spinal cord.

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.

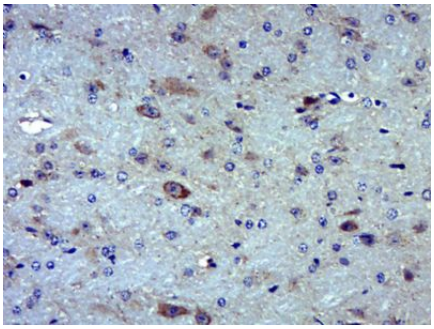
Protein Information

Name	MOXD1
Synonyms	MOX
Cellular Location	Endoplasmic reticulum membrane; Single-pass type I membrane protein
Tissue Location	Highly expressed in lung, kidney, brain and spinal cord.

Images



Sample:
Jurkat(Human) Cell Lysate at 30 ug
Primary: Anti-MOXD1 (AP56811) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 68 kD
Observed band size: 68 kD



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (MOXD1) Polyclonal Antibody, Unconjugated (AP56811) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.