10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

AFF2 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP54601

Specification

AFF2 Polyclonal Antibody - Product Information

Application	**WB, IHC-P, IHC-F, IF, ICC, E**
Primary Accession	P51816
Reactivity	**Rat, Pig, Dog, Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**145 KDa**
Physical State	**Liquid**
Immunogen	**KLH conjugated synthetic peptide derived from human AFF2**
Epitope Specificity	**1-80/1311**
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	**Nucleus speckle. When splicing is inhibited, accumlates in enlarged speckles.**
SIMILARITY	**Belongs to the AF4 family.**
DISEASE	**Defects in AFF2 are the cause of fragile X-E mental retardation syndrome (FRAXE) [MIM:309548]. FRAXE is an X-linked form of mental retardation. Loss of FMR2 expression is correlated with FRAXE CCG(N) expansion. Normal individuals have 6-35 copies of the repeat, whereas cytogenetically positive, developmentally delayed males have more than 200 copies and show methylation of the associated CPG island.**
Important Note	**This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.**

Background Descriptions
FMR2 is a 1311 amino acid nuclear protein belonging to the AF4 family. Expressed in the brain, placenta and lung, FMR2 exists as two isoforms produced by alternative splicing. Defects in the gene that encodes FMR2 have been found to be a cause of FRAXE, an X-linked form of mental retardation. Individuals expressing the FRAXE site also have more than two-hundred copies of a GCC repeat adjacent to CpG island, compared to six to thirty-five copies of the GCC repeat in a normal individual. It is believed that loss of FMR2 expression causes this GCC expansion of the FRAXE site.

AFF2 Polyclonal Antibody - Additional Information

Gene ID 2334

Other Names
AF4/FMR2 family member 2, Fragile X E mental retardation syndrome protein, Fragile X mental retardation 2 protein, FMR2P, Protein FMR-2, Protein Ox19, AFF2, FMR2, OX19

Target/Specificity
Brain (most abundant in hippocampus and amygdala), placenta and lung.

Dilution
WB~~1:1000<br \>IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>ICC~~N/A<br \>E~~N/A

Storage
Store at -20 ℃ 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 ℃.

AFF2 Polyclonal Antibody - Protein Information

Name AFF2 (HGNC:3776)

Synonyms FMR2, OX19

Function
RNA-binding protein. Might be involved in alternative splicing regulation through an interaction with G-quartet RNA structure.

Cellular Location
Nucleus speckle. Note=When splicing is inhibited, accumulates in enlarged speckles

Tissue Location
Brain (most abundant in hippocampus and amygdala), placenta and lung

AFF2 Polyclonal Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

AFF2 Polyclonal Antibody - Images