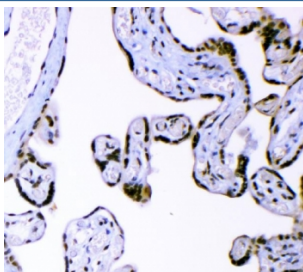


AFF4 Antibody / AF4/FMR2 family member 4 (R32620)

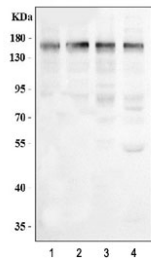
Catalog No.	Formulation	Size
R32620	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

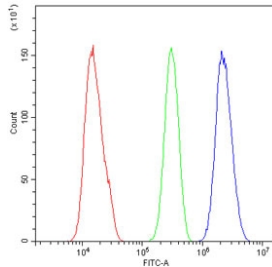
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	Q9UHB7
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Flow Cytometry : 1-3ug/million cells Immunoprecipitation : 2ug per 500ug of lysate
Limitations	This AFF4 antibody is available for research use only.



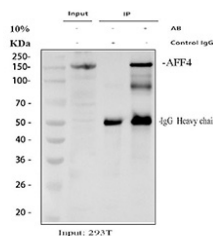
IHC staining of FFPE human placental tissue with AFF4 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of human 1) HeLa, 2) HepG2, 3) 293T and 4) U-87 MG cell lysate with AFF4 antibody. Predicted molecular weight ~127/98/39 kDa (isoforms 1/2/3).



Flow cytometry testing of fixed and permeabilized human SiHa cells with AFF4 antibody at 1ug/10⁶ cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= AFF4 antibody.



Immunoprecipitation of AFF4 protein from 500ug of human 293T whole cell lysate with 2ug of AFF4 antibody.

Description

AFF4 (AF4/FMR2 family member 4) is a core scaffold of the Super Elongation Complex (SEC), coordinating RNA polymerase II pause release and productive elongation. By bridging P-TEFb (CDK9/Cyclin T1), ELL family elongation factors, and ENL/AF9 partners, AFF4 stabilizes SEC assembly at target loci, enabling rapid transcriptional responses during development, stress adaptation, and lineage specification.

Dysregulation of AFF4 disrupts elongation control and has been linked to oncogenic transcription programs and certain developmental phenotypes. AFF4 also intersects with viral gene regulation, where modulation of P-TEFb availability impacts transcriptional reactivation, making it relevant for studies spanning epigenetic control, host-pathogen interactions, and therapeutic transcriptional reprogramming.

The **AFF4 antibody** supports specific detection of endogenous AFF4 in applications such as western blot, immunofluorescence, immunoprecipitation, and chromatin-focused assays. Researchers use the AFF4 antibody to quantify protein abundance, assess chromatin association with transcriptional machinery, and monitor SEC integrity under genetic or pharmacologic perturbations. With high specificity and reproducible performance, the AFF4 antibody enables rigorous analysis of transcriptional elongation and its role in disease.

Application Notes

Optimal dilution of the AFF4 antibody should be determined by the researcher.

Immunogen

Amino acids 6-53 (RNVLRMKERERRNQEIQQGEDAFPPSSPLFAEPYKVTSKEDKLSSRIQ-human) were used as the immunogen for the AFF4 antibody.

Storage

After reconstitution, the AFF4 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.