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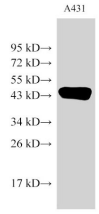
beta actin Polyclonal Antibody

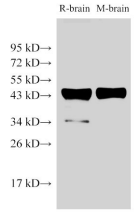
Catalog No.	E-AB-40338	**Reactivity**	H,M,R
Storage	Store at -20℃. Avoid freeze / thaw cycles.	**Host**	Rabbit
Applications	WB,IHC	**Isotype**	IgG

Note: Centrifuge before opening to ensure complete recovery of vial contents.

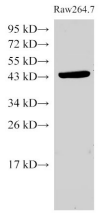
Images



Western Blot analysis of A431 cells using beta actin Polyclonal Antibody at dilution of 1:2000



Western Blot analysis of Rat brain and Mouse brain using beta actin Polyclonal Antibody at dilution of 1:2000



Western Blot analysis of Raw264.7 cells using beta actin Polyclonal Antibody at dilution of 1:2000

Immunogen Information

Immunogen	Recombinant Zebrafish Actin, cytoplasmic 2 protein
Swissprot	Q7ZVF9
Synonyms	ACTB, Actin beta, Actx, Actin cytoplasmic 1, b actin, A26C1A

Product Information

Calculated MW	41 kDa
Observed MW	41 kDa
Buffer	PBS with 0.05% Proclin300, 50% glycerol, pH7.3.
Purify	Antigen Affinity Purification
Dilution	WB 1:3000-1:30000 IHC 1:100-1:300

Background

Beta actin, also named as ACTB and F-Actin, belongs to the actin family. Actins are highly conserved globular proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells. At least six isoforms of actins are known in mammals and other vertebrates: alpha (ACTC1, cardiac muscle 1), alpha 1 (ACTA1, skeletal muscle) and 2 (ACTA2, aortic smooth muscle), beta (ACTB), gamma 1 (ACTG1) and 2 (ACTG2, enteric smooth muscle). Beta and gamma 1 are two non-muscle actin proteins. Most actins consist of 376aa, while ACTG2 (rich in muscles) has 375aa and ACTG1(found in non-muscle cells) has only 374aa. Beta actin has been widely used as the internal control in RT-PCR and Western Blotting as a 42-kDa protein. However, the 41 kDa cleaved fragment of beta actin can be generated during apoptosis process. This antibody can recognize all the actins.