

## Mouse Anti-beta Actin, monoclonal

**CatNo** **MAK6019**

BatchNo:  
Despatch Date:  
Storage: 2-8°C for 1 month  
-20°C for longer

<b>Clone Number:</b>	AC-15
<b>Volume/Quantity:</b>	0.1 ml
<b>Product Form:</b>	Ascites - liquid
<b>Preservatives Stabilisers:</b>	15 mM Sodium Azide (NaN <sub>3</sub> )
<b>Immunogen:</b>	Synthetic peptide corresponding to beta Actin aa 1-14 (N terminal) conjugated to Keyhole Limpet Haemocyanin (KLH). Slightly modified $\beta$ -cytoplasmic actin N-terminal peptide, Ac-Asp-Asp-Asp-Ile-Ala-Ala-Leu-Val-Ile-Asp-Asn-Gly-Ser-Gly-Lys, conjugated to KLH. Sequence: DDDIAALVIDNGSGK
<b>Fusion Partners:</b>	Monoclonal Anti-beta-Actin is derived from the AC-15 hybridoma produced by the fusion of mouse myeloma cells and splenocytes from an immunized mouse.
<b>Isotype:</b>	IgG1 (Mouse)
<b>Epitope:</b>	Monoclonal Anti-beta-Actin recognizes an epitope located on the N-terminal end of the beta-isoform of actin.
<b>Positive control:</b>	Cultured human or chicken fibroblasts as described in Liao et al. ICC/IF: SV40LT-SMC cells.
<b>Specificity:</b>	This antibody makes a good loading control antibody and we recommend its use as such. The antibody specifically labels $\beta$ -actin in a wide variety of tissues and species using immunoblotting (42 kDa), immunofluorescent staining of cultured cell lines, and immunohistochemistry. In immunofluorescent staining of chicken gizzard ultrathin tissue cryosections, the antibody labels the dense bodies and the longitudinal channels linking consecutive dense bodies that are also occupied by desmin and the membrane-associated dense plaque. It does not stain adult cardiac and skeletal muscles. The epitope recognized by the antibody is resistant to formalin-fixation and paraffin-embedding. Ethanol, B5, methacarn, or Bouin's solutions may also be used as fixatives.
<b>Species Cross Reactivity:</b>	Mouse, Rat, Sheep, Rabbit, Chicken, Guinea pig, Hamster, Cow, Cat, Dog, Human, Carp, Opossum, Common marmoset, Meriones unguiculatus, pig and Hirudo medicinalis.
	<b>Does not react with:</b> Drosophila melanogaster, Dictyostelium discoideum

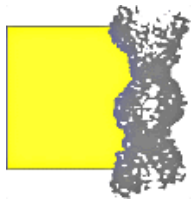
### Applications:

Suggested Working Dilution

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FlowCytometry	Not tested	
Immunohistology-frozen	Yes	
Immunohistology-paraffin	Yes	
Immunofluorescence	Yes	1/1000 – 1/2000
Immunohistology-resin	Not tested	
ELISA	Not tested	
Immunoprecipitation	Not tested	
Western Blotting	Yes	1/5000 – 1/10000
Radioimmunoassay	Not tested	

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

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### Immunohistology

<b>Pre-treatment:</b>	This product requires antigen retrieval using heat treatment prior to staining of paraffin sections with HistoSafe-Enhancer. (LINARIS CatNo E7000).
<b>Positive Control Tissue:</b>	Tonsil
<b>Recommended Secondary Reagents:</b>	F(ab') <sub>2</sub> rabbit anti-mouse IgG HRP conjugate - (LINARIS CatNo LST0013B) ABC-Kit Mouse IgG-POD Labelling (LINARIS CatNo EDP4002) DAB-Substrate for POD (LINARIS CatNo E108) or HistoGreen-Substrate for POD (LINARIS CatNo E109) ABC-Kit Mouse IgG AP Labelling (LINARIS CatNo EDA5002) BCIP/NBT Substrate for AP (LINARIS CatNo ESA5400)
<b>Recommended Negative Controls:</b>	Mouse IgG1 Negative Control (LINARIS CatNo ITC0928)

### Westernblotting

<b>Chemiluminescent Substrate:</b>	DuoLuX Chemiluminescent Substrate for Alkaline Phosphatase (AP) (LINARIS CatNo ESA6605) and Peroxidase (POD) (LINARIS CatNo ESP6604).
<b>Western Blotting Immunodetection Kit:</b>	ABC-AmP Chromogenic Detection Kit anti-Mouse IgG (LINARIS CatNo EDA6402) or anti-Rabbit IgG (LINARIS CatNo EDA6401)
<b>Weight Standard:</b>	Biotinylated protein molecular weight marker (LINARIS CatNo RPB1400). Molecular weight range from 19kD to 222kD.

### References

1. North, A.J., et al., J. Cell Biol., 120, 1159-67 (1993).
2. Vandekerchove, J., and Weber, K., Eur. J. Biochem., 90, 451 (1978).
3. Drew, J., et al., Amer. J. Physiol., 260, C1332 (1991).
4. Lessard, J., Cell Motil. Cytoskel., 10, 349 (1988).

<b>Storage Conditions:</b>	Store at 2-8°C for one month or at -20°C for longer! Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
<b>Shelf Life:</b>	12 months from date of despatch.
<b>Health and Safety Information:</b>	(A full Health and Safety assessment is available upon request) This product contains sodium azide: a POISONOUS and HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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**For Research purposes only. Not for therapeutic or diagnostic use.**