

Recombinant

DGRmAb®

alpha Skeletal Muscle Actin (DGR19186) Rabbit mAb

db12197

Package : 10µL 20µL 50µL 100µL

Product Name : alpha Skeletal Muscle Actin (DGR19186) Rabbit mAb**Cat.No.:** db12197**Synonyms** : ACTA; ASMA; CFTD; MPFD; NEM1; NEM2; NEM3; SHPM; CFTD1; CFTDM**Application** : WB, IHC-P, ICC/IF, FC**Reactivity** : Human,Mouse,Rat**Host species** : Rabbit**Background**

The product encoded by this gene belongs to the actin family of proteins, which are highly conserved proteins that play a role in cell motility, structure and integrity. Alpha, beta and gamma actin isoforms have been identified, with alpha actins being a major constituent of the contractile apparatus, while beta and gamma actins are involved in the regulation of cell motility. This actin is an alpha actin that is found in skeletal muscle. Mutations in this gene cause a variety of myopathies, including nemaline myopathy, congenital myopathy with excess of thin myofilaments, congenital myopathy with cores, and congenital myopathy with fiber-type disproportion, diseases that lead to muscle fiber defects with manifestations such as hypotonia. [provided by RefSeq, Sep 2019]

Immunogen

A synthetic peptide of human muscle Actin

Gene ID

58

Swiss Prot

P68133

Synonyms

ACTA; ASMA; CFTD; MPFD; NEM1; NEM2; NEM3; SHPM; CFTD1; CFTDM

Reactivity

Human,Mouse,Rat

Application

WB, IHC-P, ICC/IF, FC

Recommended dilutionWB: 1:1000
IHC-P: 1:100-1:200
ICC/IF: 1:200-1:500
FC: 1:20**Calculated MW**

42 kDa

Observed MW

42 kDa

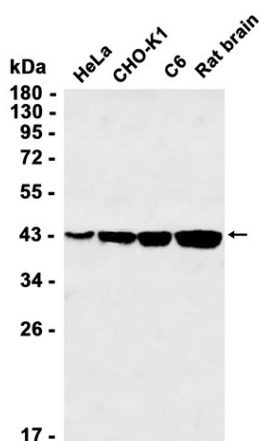
Host species

Rabbit

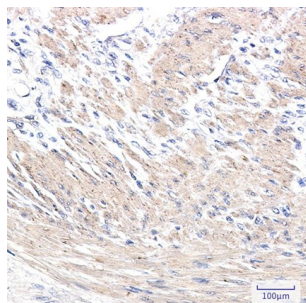
Clonality

Monoclonal

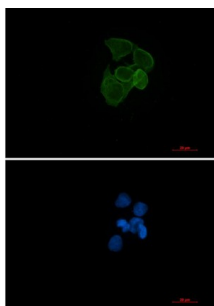
Clonality No.	DGR19186
Isotype	IgG
Purity	Affinity Purification
Conjugation	Un-conjugated
Storage Stability	Store at -20°C. Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA. Stable for 12 months from date of receipt.



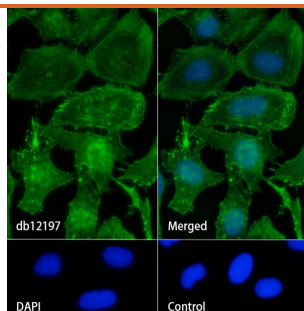
Western blot analysis of extracts from HeLa, CHO-K1, C6 cells and Rat brain tissue using db12197 at 1:1000.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using db12197 antibody.



Immunofluorescent analysis of HeLa cells using db12197 antibody (green), and DAPI (blue).



Immunofluorescence analysis of HeLa cells labelling alpha Skeletal Muscle Actin with db12197.

The cells were fixed with cold 100% methanol (10min, 4°C) and blocked in 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween 20 for 1h. The cells were then incubate with db12197 (1:200) at room temprature for 1h, followed by a further incubation at room temperature for 45min with Goat Anti Rabbit IgG (H+L)-AF488 (db10005, shown in green). Nuclear DNA was labeled in blue with DAPI.

Control: Secondary antibody only.