

GMFG Polyclonal Antibody

Catalog number: 13625-1-AP

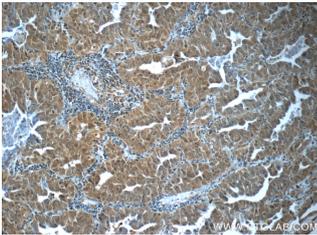
Size: 20 µg/150 µl

Source: Rabbit

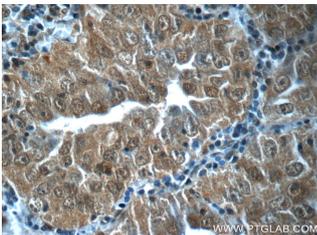
Isotype: IgG

Synonyms:

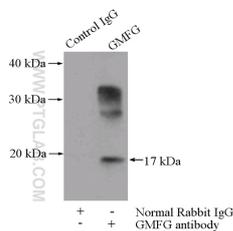
GMFG; Glia maturation factor gamma, glia maturation factor, gamma, GMF GAMMA, GMFG



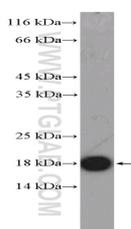
Immunohistochemistry of paraffin-embedded human lung cancer tissue slide using 13625-1-AP (GMFG Antibody) at dilution of 1:50 (under 10x lens)



Immunohistochemistry of paraffin-embedded human lung cancer tissue slide using 13625-1-AP (GMFG Antibody) at dilution of 1:50 (under 40x lens)



IP Result of anti-GMFG (IP:13625-1-AP, 4µg; Detection:13625-1-AP 1:500) with mouse spleen tissue lysate 4000µg.



Background

GMFG (glia maturation factor-γ), is a 17 kDa protein that belongs to the GMF subfamily of the larger Actin-binding protein ADF family. In adult rat, the GMFG mRNA is predominantly expressed in the thymus, testis, and lung. GMFG is considered a hematopoietic-specific protein that may mediate the pluripotentiality and lineage commitment of human hematopoietic stem cells. GMFG has several serine/threonine (Ser/Thr) phosphorylation sites, and can be phosphorylated at N-terminal serine, and its phosphorylation is enhanced by coexpression of dominant active Rac1 and Cdc42. Expression of GMFG enhances actin-based cellular functions such as migration and tube-formation in endothelial cells. GMFG expression is also significantly increased in a cardiac ischemia/reperfusion model where inflammation and angiogenesis take place actively.

Applications

Tested applications:	ELISA, IHC, IP, WB
Cited applications:	IHC, WB
Species specificity:	Human, Mouse, Rat; other species not tested.
Cited species:	Human, mouse
Calculated GMFG MW:	141aa, 17 kDa
Observed GMFG MW:	17 kDa
Positive WB detected in	Rat brain tissue, human heart tissue, human placenta tissue, mouse placenta tissue
Positive IP detected in	Mouse spleen tissue
Positive IHC detected in	Human lung cancer tissue, human heart tissue, human kidney tissue, human placenta tissue, human spleen tissue, human testis tissue
Recommended dilution:	WB: 1:200-1:2000 IP: 1:200-1:2000 IHC: 1:20-1:200

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag4538
GenBank accession number:	BC032819
Gene ID (NCBI):	9535
Full name:	Glia maturation factor, gamma

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C.

rat brain tissue were
subjected to SDS PAGE
followed by western blot with
13625-1-AP(GMFG Antibody)
at dilution of 1:600