

STMN4 Polyclonal Antibody

Catalog number: 12027-1-AP

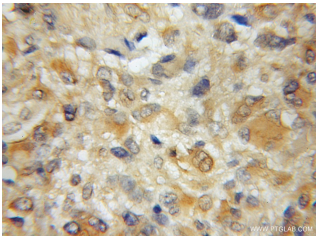
Size: 57 µg/150 µl

Source: Rabbit

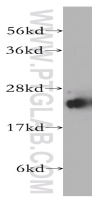
Isotype: IgG

Synonyms:

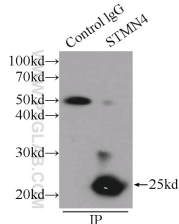
STMN4; RB3, Stathmin 4, stathmin like 4, Stathmin like protein B3, STMN4



Immunohistochemical of paraffin-embedded human gliomas using 12027-1-AP (STMN4 antibody) at dilution of 1:50 (under 10x lens)



human brain tissue were subjected to SDS PAGE followed by western blot with 12027-1-AP (STMN4 antibody) at dilution of 1:1000



IP Result of anti-STMN4 (IP:12027-1-AP, 3µg; Detection:12027-1-AP 1:1000) with mouse brain tissue lysate 6000µg.

Background

RB3 (Stathmin-4), encoded by STMN4 gene, is a neuron-specific homologue of the SCG10/stathmin family proteins, possessing a unique N-terminal membrane-associated domain and the stathmin-like domain at the C terminus, which promotes microtubule (MT) catastrophe and/or tubulin sequestering. Stathmin is a ubiquitous cytosolic phosphoprotein, preferentially expressed in the nervous system, and described as a relay integrating diverse intracellular signaling pathways. RB3 is consistently up-regulated in differentiated neuroblastoma cells, and stable expression of transfected RB3 could induce differentiation, suggesting a role of RB3 during neuroblastoma differentiation. Moreover, increased RB3 is a unique response protein in the stathmin-related proteins following optical nerve axotomy and RB3 may be a critical target for neurodegenerative diseases.

Applications

Tested applications:	ELISA, WB, IP, IHC
Species specificity:	Human, Mouse, Rat; other species not tested.
Calculated STMN4 MW:	216aa, 25 kDa
Observed STMN4 MW:	25kd
Positive WB detected in:	Human brain tissue
Positive IP detected in:	Mouse brain tissue
Positive IHC detected in:	Human gliomas tissue, human brain tissue
Recommended dilution:	WB: 1:1000-1:10000
	IP: 1:500-1:5000
	IHC: 1:20-1:200

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

Immunogen information

Immunogen:	Ag2657
GenBank accession number:	BC011520
Gene ID (NCBI):	81551
Full name:	Stathmin-like 4

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.