# **MASTL**

CONTACT INFORMATION: Monoclonal Antibodies Unit. Centro Nacional de Investigaciones Oncológicas

STATUS: Validated

TYPE: mouse anti human

CLONE NAME: RIPLY74C

PROTEIN: Microtubule associated serine/threonine kinase-like PROTEIN WEB: http://www.ncbi.nlm.nih.gov/protein/AAH09107.1

ANTIGEN USED: GST-hMASTL recombinant full length protein

FUSION PARTNER: NS1/Ag4-1 (NS1) cells

ISOTYPE: IgG1

SPECIES REACTIVITY: Human and mouse

PREPARATION AND STORAGE: Aliquot and store at 4C. Do not freeze

#### **DESCRIPTION**

MASTL (microtubule associated serine/threonine kinase-like), also known as GW, THC2 or serine/threonine-protein kinase greatwall, is an 879 amino acid serine/threonine kinase regulates mitosis entry and maintenance. Depletion of MASTL delays the G2-to-M phase transition, is linked to a prolonged mitosis and sensitizes cells to mitotic death.

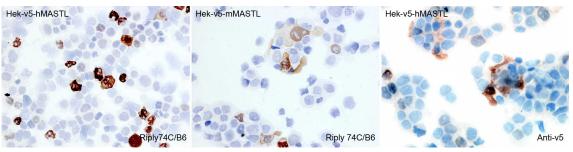
#### PUBLICATION DESCRIBING ANTIBODY CHARACTERIZATION/VALIDATION

Álvarez-Fernández M, Sanz-Flores M, Sanz-Castillo B, Salazar-Roa M, Partida D, Zapatero-Solana E, Ali HR, Manchado E, Lowe S, Van Arsdale T, Shields D, Caldas C, Quintela-Fandino M, Malumbres M. Therapeutic relevance of the PP2A-B55 inhibitory kinase MASTL/Greatwall in breast cancer. Cell Death Differ. 2018 May;25(5):828-840.

#### **APPLICATIONS**

IHC Techniques	Clone Dilution Antibody concentration	IHC Techniques	Antigen retrieval method	Visualization kit	Positive control	Negative control	Protein localization	Positivity in other species	
----------------	---------------------------------------	----------------	--------------------------	-------------------	------------------	------------------	----------------------	-----------------------------	--

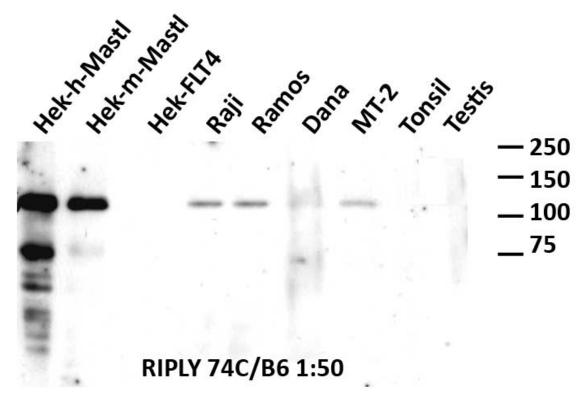
Frozen tissue and cytospins									
Paraffin tissue									
Recommended	RIPLY	1:15	supernatant			Tonsil			mouse
	74C								
Immunofluorescence									



## RIPLY74C mAb in transfected cells

Cytospin preparations of transfected HEK293T/v5-hMASTL and HEK293T/V5-mMASTL cells using antibody RIPLY74C. Anti-V5 antibody was used as positive control.

WB Techniques	Clone	Dilution	Antibody concentration	Positive control	Negative control	Expected MW	Observed Mw	Positivity in other species		
Western Blotting										
Recommended	RIPLY74	1:50	neat supernatant	Raji cell line		97kDa	120kDa			
	С									
Immunoprecipitation										



# Western Blotting of MAST (RIPLY74C) using different human cell lines.

Lane 1 Hek-hMASTL transfected cells (20ug) (+)

Lane 2 Hek-mMASTL transfected cells (20ug) (+)

Lane 3 Hek-FLT4 transfected cells (20ug) (-)

Lane 4 Raji cell line (100ug)(+)

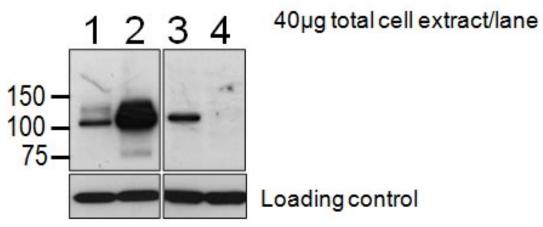
Lane 5 Ramos cell line (100ug)(+)

Lane 6 Dana cell line (100ug)(+)

Lane 7 MT-2 cell line (100ug)(+)

Lane 8 human tonsil (100ug)(-)

Lane 9 Human testis (100ug)(-)



# Western Blotting of MASTL (RIPLY74C) using different cell lines

Lane 1 293T cell mock transfected (40ug)

Lane 2 293T cells V5-mMASTL (40ug)

Lane 3 HeLa cells shCtrl transfected (40ug)

Lane 4 HeLa cells shMASTL transfected (40ug)