

PDGFB

CONTACT INFORMATION:	Monoclonal Antibodies Unit. Centro Nacional de Investigaciones Oncológicas
STATUS:	Validated
TYPE:	rat anti human
CLONE NAME:	326A
PROTEIN:	Platelet derived growth factor, B chain
PROTEIN WEB:	http://www.ncbi.nlm.nih.gov/protein/NP_002599.1
ANTIGEN USED:	His-GST-PDGFB recombinant full length protein
FUSION PARTNER:	NS1/Ag4-1 (NS1) cells
ISOTYPE:	IgG2b
SPECIES REACTIVITY:	Human
PREPARATION AND STORAGE:	Aliquot and store at 4C. Do not freeze

DESCRIPTION

The protein encoded by this gene is a member of the platelet-derived growth factor family. The four members of this family are mitogenic factors for cells of mesenchymal origin and are characterized by a motif of eight cysteines. This gene product can exist either as a homodimer (PDGF-BB) or as a heterodimer with the platelet-derived growth factor alpha polypeptide (PDGF-AB), where the dimers are connected by disulfide bonds. Mutations in this gene are associated with meningioma. Reciprocal translocations between chromosomes 22 and 17, at sites where this gene and that for collagen type 1, alpha 1 are located, are associated with a particular type of skin tumor called dermatofibrosarcoma protuberans resulting from unregulated expression of growth factor. Two alternatively spliced transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq, Feb 2013].

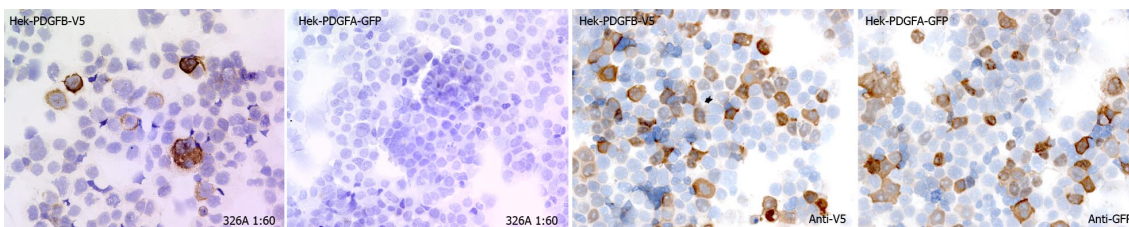
APPLICATIONS

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

Paraffin tissue

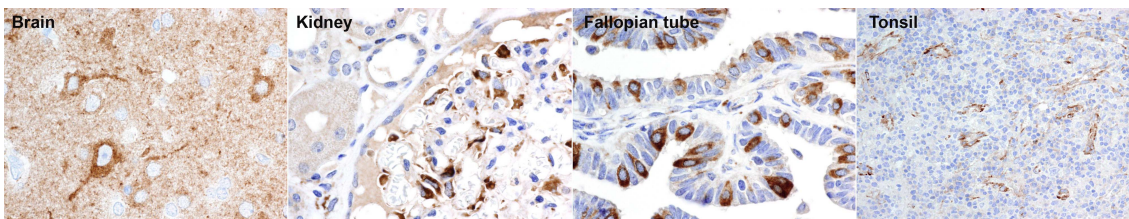
Recommended	326A	1:20	Purified			Tonsil		
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Immunofluorescence



326A mAb in transfected cells

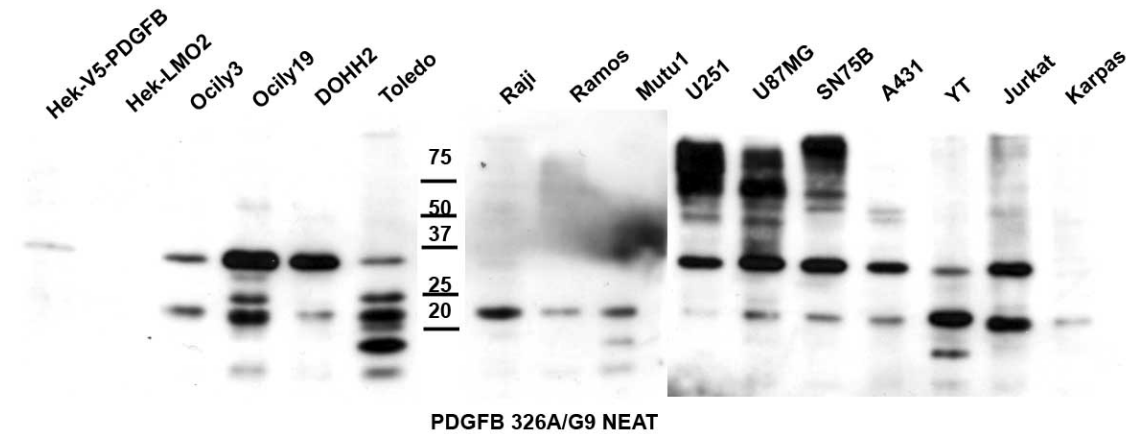
Cytospin preparations of transfected HEK293T/v5-hPGFB and HEK293T/GFP-hPDGFA cells using antibody 326A. Anti-V5 anti-GFP antibodies were used to confirm the efficiency of the transfections.



326A mAb staining in human paraffin tissues.

WB Techniques	Clone	Dilution	Antibody concentration	Positive control	Negative control	Expected MW	Observed Mw	Positivity in other species
Western Blotting								
Inconclusive	326A	Neat supernatant				27kDa	27kDa	

Immunoprecipitation



Western Blotting of 326A using different cell extracts.

- Lane 1 Hek-V5-PDGFB (0.1ug) (+)
- Lane 2 Hek-LMO2 (100ug) (-)
- Lane 3 Ocily3 (100ug) (-)
- Lane 4 Ocily19 (100ug) (+)
- Lane 5 DOHH2 (100ug) (-)
- Lane 6 Toledo (100ug) (+)
- Lane 7 Raji (100ug) (-)
- Lane 8 Ramos (100ug) (-)
- Lane 9 Mutu1 (100ug) (-)
- Lane 10 U251 (100ug) (+)
- Lane 11 U87MG (100ug) (+)
- Lane 12 SN75B (100ug) (+)
- Lane 13 A431 (100ug) (+)
- Lane 14 YT (100ug) (+)

Lane 15 Jurkat (100ug) (+)

Lane 16 Karpas (100ug) (-)