

## PARANEOPLASTIC ANTIBODIES

Antibody (synonym)	Staining pattern	Paraneoplastic Neurological Disorder	Typically Associated tumours
Hu (ANNA1)	Nuclei of both central and peripheral neurones	Paraneoplastic Cerebellar Degeneration (PCD) Encephalomyelitis Subacute Sensory Neuropathy (SSN)	Small Cell Lung Carcinoma (SCLC) (75-80%)
Yo (PCA-1)	Purkinje cell cytoplasm & axons Granular stain Nucleii not stained	PCD	Ovary, Breast
Ri (ANNA2)	Nuclei of central neurones	Cerebellar Ataxia, Opsoclonus/Myoclonus , Brainstem Encephalomyelitis,	Breast (50%) , SCLC gynaecological, Neuroblastoma in children
CV2 (CRMP5)	Oligodendrocytes cytoplasm	PCD, Limbic Encephalitis Encephalomyelitis Sensory Neuropathy	SCLC , Thymoma, Sarcoma
PNMa2 (Ma 2Ta)	Neuronal nuclei, perikaryon	PCD, Limbic Encephalitis Brainstem Encephalomyelitis Sensory Neuropathy	Testicular, Various cancer
Amphiphysin	Central presynaptic terminals, no stain in Purkinje cells	Stiff Person Syndrome, PCD, Encephalomyelitis SSN	Breast cancer, SCLC
Recoverin	Retinal photoreceptor	Retinopathy	SCLC
Tr	Purkinje cell cytoplasm, less coarse than Yo. Punctate stain in molecular layer	PCD	Hodgkins Disease
SOX1 (AGNA)	Nucleii of Bergmann glia round Purkinje cells, glia in white matter	PCD, Lambert Eaton Myasthenic syndrome	SCLC
Titin	Filament of striated muscle	Myasthenia Gravis	Thymoma