

ANTINEURONAL ANTIBODIES / NEURONAL ANTIGEN PROFILE

- The antineuronal antibodies are associated with paraneoplastic neurological diseases (Anti-Hu, Yo, Ri amphiphysin & Ma2/Ta antibodies). Some of these antibodies are specific for certain types of cancer or neurological syndromes and are highly useful diagnostic tools for the clinician.

A paraneoplastic syndrome is a disease or symptom that is the consequence of the presence of cancer in the body, but is not due to the local presence of cancer cells.

These phenomena are mediated by humoral factors (by hormones or cytokines) excreted by tumor cells or by an immune response against the tumor

Sometimes the symptoms of paraneoplastic syndromes show before the diagnosis of a malignancy

Neuronal antibodies

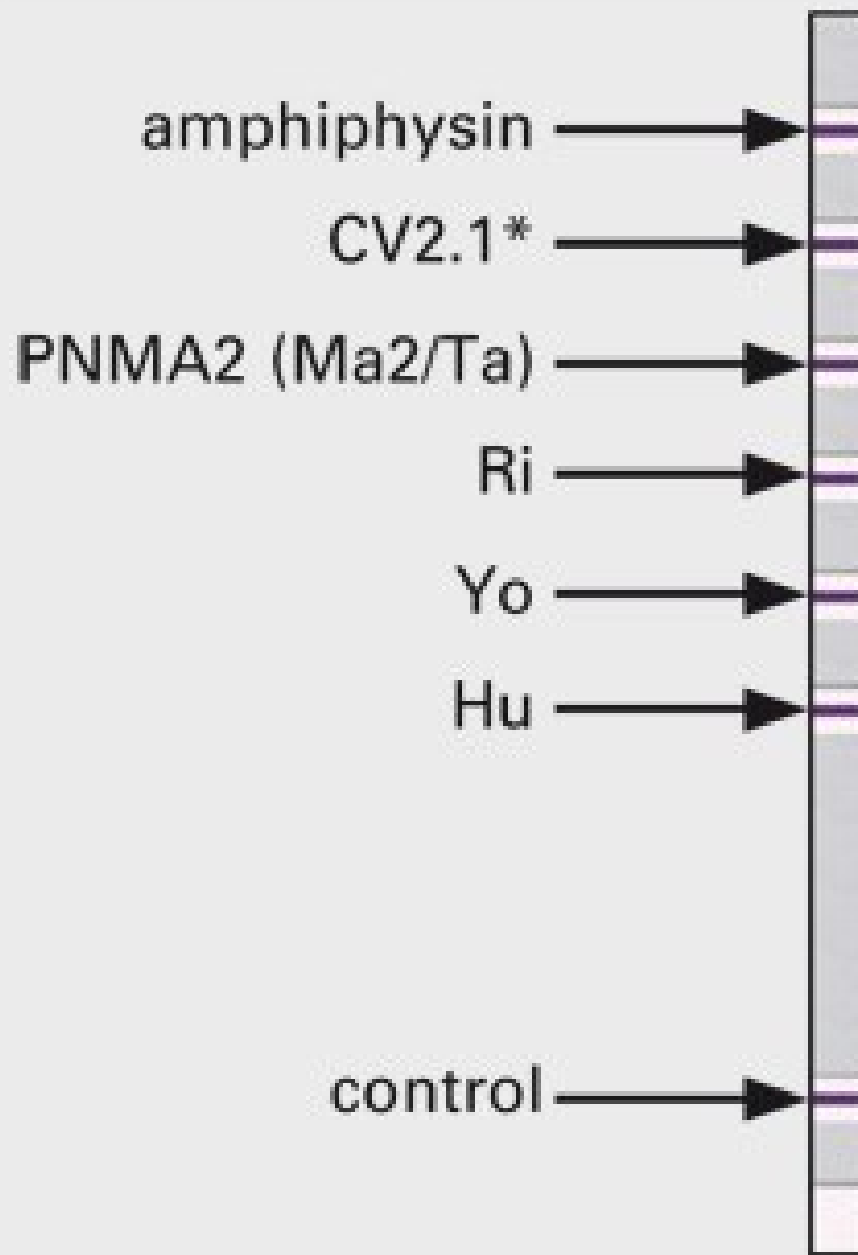
Designation of the antibodies	Localization of the antigens
anti-amphiphysin	Membrane of synaptic vesicles
anti-PNMA2 (Ma2/Ta)	Neurons and testis
anti-Ri/ANNA-2	Cell nuclei of neurons in the central nervous system
anti-Yo/PCA-1	Purkinje cell cytoplasm (cerebellum)
anti-Hu/ANNA-1	Cell nuclei and neurons of the central and peripheral nervous system

Antibodies, neurological syndrome and associated tumours [4, 5, 41]

Antibodies	Neurological syndrome	Typically associated tumours
Anti-Hu (ANNA1)	Sensory neuronopathy Chronic gastrointestinal pseudoobstruction Cerebellar degeneration Limbic encephalitis	Small cell bronchial carcinoma
Anti-Yo (PCA1)	Cerebellar degeneration	Ovarial carcinoma, mammary carcinoma
Anti-Ma2 (Ma/Ta)	Limbic encephalitis Brainstem encephalitis Cerebellar degeneration	Seminoma, lung carcinoma
Anti-Ri (ANNA2)	Brainstem encephalitis	Mammary carcinoma, small cell bronchial carcinoma
Anti-amphiphysin	Stiff-person syndrome Various	Mammary carcinoma, small cell bronchial carcinoma

PRINCIPLE OF TEST

- IMMUNOBLOT METHOD
- Test strips can be automatically incubated and evaluated using the systems EUROBlotMaster und EUROLineScan.



- **COST: Rs. 9800**
- **SAMPLE REQUIREMENT: 3ml serum**
- **SCHEDULE: Monday 9.00 am**
- **COMPLETION: next day 5.00 pm**