Brain region	Cell type/ Vessel type	GGA1-expression in normal aged human brain	GGA1-expression in AD	AD-pathology
Frontal cortex	Neurons	Faintly-moderately stained pyrmaidalneurons in layers III and	Faintly-moderately stained pyrmaidalneurons in layers III	Senile plaques exhibiting GGA1-positive
		V; other neurons do not show a significant expression	and V; other neurons do not show a significant expression	microglial cells
	Astrocytes	-	Infrequently +	
	Oligodendrocytes			
	Neuropil/ white matter	Neuropil +/ white matter -	Neuropil +/ white matter -	
Occipital cortex	Neurons	Unstained-faintly stained neurons in layers III and V; other	Unstained-faintly stained neurons in layers III and V;	Senile plaques exhibiting GGA1-positive
		neurons do not show a significant expression	other neurons do not show a significant expression	microglial cells
	Astrocytes	in a single case	Infrequently +	
	Oligodendrocytes	-	-	
	Neuropil/ white matter	Neuropil +/ white matter -	Neuropil +/ white matter -	
Hippocampus	Neurons	Subiculum, CA1: weakly positive; CA2-CA4: strongly positive;	Subiculum, CA1: weakly positive; CA2-CA4: strongly	Senile plaques in CA1 and the subiculum
		dentate gyrus: negative-faintly positive; temporal neocortex:	positive; dentate gyrus: negative-faintly positive;	sector exhibiting GGA1-positive microglial
		pyramidal neurons inlayers III and V moderately-strongly	temporal neocortex: pyramidal neurons inlayers III and V	cells
		positive; entorhinal cortex: pre- $\alpha$ neurons : strongly positive;	moderately-strongly positive; entorhinal cortex: pre-	
		other neuro	neurons : strongly positive; other neuro	
	Astrocytes	In single cases in CA4 positive	In the temporal isocortex and in single cases in CA4 infrequently positive	
	Oligodendrocytes	-	-	
	Neuropil/ white matter	Neuropil +/ white matter -	Neuropil +/ white matter -	
Basal ganglia	Neurons	Putamen: -; Globus pallidus: positive	Putamen: -; Globus pallidus: positive	
	Astrocytes	In single cases positive	In single cases positive	
	Oligodendrocytes			
	Neuropil/ white matter	Neuropil +/ white matter -	Neuropil +/ white matter -	
halamus	Neurons	Neurons moderatly positive	Neurons moderatly positive	
	Astrocytes	-	-	
	Oligodendrocytes	-	-	
	Neuropil/ white matter	Neuropil +/ white matter -	Neuropil +/ white matter -	
Midbrain	Neurons	Substantia nigra and central gray:-; oral raphe nucleus: positive	Substantia nigra and central gray:-; oral raphe nucleus:	
			positive	
	Astrocytes	-	-	
	Oligodendrocytes	-	-	
	Neuropil/ white matter	Neuropil +/ white matter -	Neuropil +/ white matter -	
Medulla oblongata	Neurons	Brain stem nuclei: VIII-XII, neurons of the reticular nuclei, of the	Brain stem nuclei: VIII-XII, neurons of the reticular nuclei,	
		inferior olivary nucleus and the raphe obscurus nucleus;	of the inferior olivary nucleus and the raphe obscurus	
		Neurons of the intermediate reticular zone (variable expression)	nucleus; Neurons of the intermediate reticular zone	
			(variable expression)	
	Astrocytes	-		
	Oligodendrocytes	-		
	Neuropil/ white matter	Neuropil +/ white matter -	Neuropil +/ white matter -	
Cerebellum	Neurons	Purkinje-cells: faintly-significantly positive positive; granule cells negative; dentate nucleus positive	Purkinje-cells: faintly-significantly positive positive; granule cells negative; dentate nucleus positive	
	Astrocytes	-	-	
	Oligodendrocytes	-	-	
	Neuropil/ white matter	Neuropil +/ white matter -	Neuropil +/ white matter -	
Leptomenigeal vessels	Arteries	smooth muscle cells:+	smooth muscle cells: +	Reduction of GGA1-positive smooth muscle cells due to CAA
	Veins	smooth muscle cells:+	smooth muscle cells: +	Reduction of GGA1-positive smooth muscle cells due to CAA
Cortical vessels	Arteries	smooth muscle cells:+	smooth muscle cells: +	Reduction of GGA1-positive smooth muscle
				cells due to CAA
	Veins	smooth muscle cells:+	smooth muscle cells: +	-
	Capillaries	-	-	-
	Arteries	smooth muscle cells:+	smooth muscle cells: +	Reduction of GGA1-positive smooth muscle
/hite matter vessels				cells/ endothelial proliferation due to AS/LH
Vhite matter vessels	Veins	smooth muscle cells:+	smooth muscle cells: +	cells/ endothelial proliferation due to AS/LH