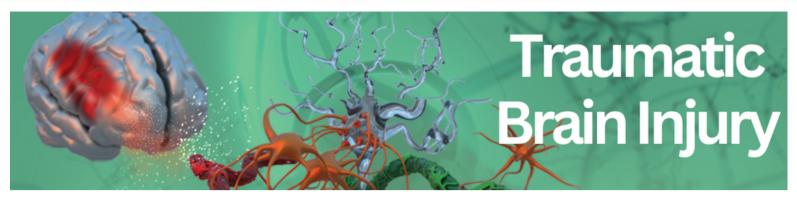
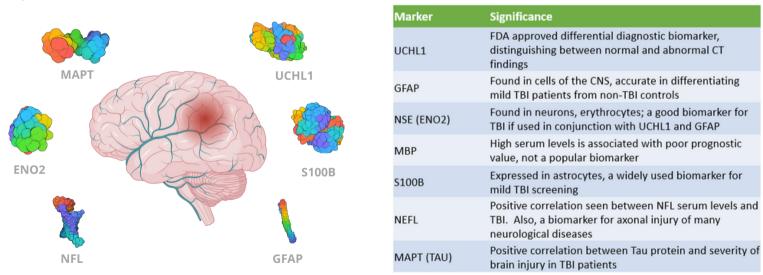
# **TBI Research Tools**



Traumatic brain injury (TBI) is a significant cause of death and disability worldwide, especially in children and young adults. It occurs when the head violently hits an object or when an object accidentally enters the brain. Currently, there is no good way to reverse the brain damage caused by TBI. But doctors can help stabilize TBI patients and prevent further brain damage. So early detection is critical for the treatment of TBI. Many biomarkers have been associated with the severity of TBI. In 2018, the first blood test was approved by the FDA to evaluate mild TBI in adults. This test measures two protein biomarkers, UCH-L1 and GFAP, in the blood after brain injury. In 2021, the first rapid handheld TBI blood test received clearance from the FDA, which also measures UCH-L1 and GFAP in the blood.



#### Key TBI Biomarkers: UCHL1, GFAP, ENO2, S100B, NEFL, MAPT

#### Traumatic Brain Injury Antibody Biomarker Panel:

TBI is a multifactorial disease with multiple biomarkers. The TBI biomarker panel is a convenient and costeffective multi-target analysis method. You can order the entire panel or each marker separately.

Biomarker	NSE (ENO2)	GFAP	MAPT (TAU)	NEFL	S100B	UCHL1
Catalog #	UM870177	TA500338S	TA809201S	TA801110S	TA807235S	UM870136

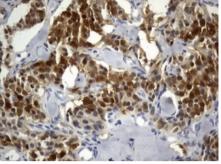
OriGene Technologies, Inc. 9620 Medical Drive. Suite 200 Rockville, MD, 20850 P: +1.301.340.3188



## **TBI Research Tools**

#### UltraMAB- Ultaspecific Antibodies for TBI Targets

#### UCHL1



IHC staining of carcinoma of human pancreas tissue using anti-UCHL1 UM800136

GFAP

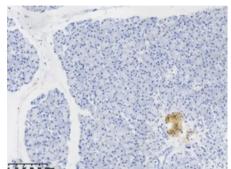
Confocal IF image of primary rat

neurons labeled with anti-GFAP

UM500005

AP/DAP





IHC staining of human pancreas tissue using anti-NSE (ENO2) UM800177

Target	Catalog #
UCHL1	CF504289
ENO2	CF813801
GFAP	CF500338
MAPT	CF809201
NEFL	CF801110
S100B	CF807235

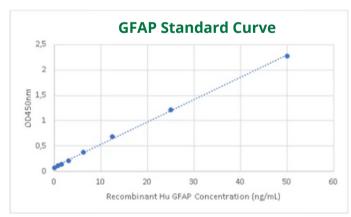
**Carrier-Free Antibodies for TBI Targets**: OriGene carrier-free antibodies are conjugation-ready and are free of BSA, sodium-azide, and glycerol. These are compatible with various labels, including fluorophores, metals, enzymes, and oligonucleotides.

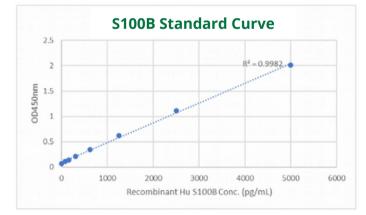
For more carrier-free antibodies, visit us at

https://www.origene.com/products/antibodies/carrier-free-antibodies

#### High-sensitivity ELISA kits for human TBI Biomarkers

Target	Sample	Catalog #	Sensitivity
GFAP	Serum, plasma, other	EA200012	85 pg/ml
S100B	Serum plasma, other	EA200016	23 pg/ml





EA200016

#### EA200012

For more details, please visit

www.origene.com/research-areas/traumatic-brain-injury

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