

Assess tryptophan metabolism by ELISA

Monitor tryptophan metabolites & enzymatic activity

Kynurenine pathway

- L-Tryptophan
- L-Kynurenine
- 3-Hydroxykynurenine
- Kynurenic acid
- Quinolinic acid

Serotonin pathway

- Tryptophan
- Serotonin
- 5-HIAA
- Melatonin

Step-by-step protocols

Analyze biological fluids, homogenates & supernatants

Accurate results

Trust your data with ELISA kits cross-validated by LC-MS

Preclinical & clinical applications

Work with small-volume samples (down to 20µL) from any species



NEW! 3-HK ELISA

Single metabolite ELISA kits

Analyte	Sample type	Min. Vol.	Product Reference
L-Tryptophan (TRP)	Any	20µL	BA-E-2700
L-Kynurenine (KYN)	Any	20µL	BA-E-2200
3-Hydroxykynurenine (3-HK)	Plasma	50µL	IS-I-2900R
Kynurenic Acid (KYNA)	Serum Plasma	50µL	IS-I-0200R
Quinolinic Acid (QA)	Serum Plasma	25µL	IS-I-0100R
Serotonin (5-HT) Ultra Sensitive	Any	1µL	BA-E-5900R
Serotonin (5-HT) Fast (75 min)	Serum Urine	25µL	BA-E-8900
Melatonin	Plasma Serum	500µL	BA-E-3300R
5-HIAA	Urine	50µL	BA-E-1900

ELISA packs to calculate ratios

Analytes	Sample type	Min. Vol.	Product Reference
KYN/TRP ratio	Any	20µL	ISE-2227R
3-HK/KYN ratio	Plasma	50µL	ISE-0103R
3-HK/KYNA ratio	Plasma	50µL	ISE-0104R
KYNA/QUIN ratio	Plasma Serum	50µL	ISE-0102R
KYN/KYNA/QUIN	Plasma Serum	50µL	ISE-220102R

IVDR certification is valid in the EU/EEA only. Outside the EU/EEA, local regulatory authorization may be required for diagnostic use; we can assist.

100+ literature citations

www.immusmol.com

Imaging tryptophan metabolism in cell & tissues

Applicable to any species | Validated protocols for cells & tissues | Different hosts for multiplexing

Validated primary antibodies

Tryptophan

L-Tryptophan mouse mAb - IS011

L-Tryptophan rabbit pAb - IS1069

Kynurenine

L-Kynurenine mouse mAb - IS003

L-Kynurenine rabbit pAb - IS1012

Kynurenic acid

Kynurenic acid mouse mAb - IS010

Kynurenic acid rabbit pAb - IS1011

Quinaldic acid mouse mAb - IS004

Anthranilic acid mouse mAb - IS013

3-Hydroxykynurenine rabbit pAb - IS1083

3-Hydroxyanthranilic acid

3-HAA mouse mAb - IS001

3-HAA rabbit pAb - IS1008

Cinnabaric acid mouse mAb - IS005

Xanthurenic acid

Xanthurenic acid mouse mAb - IS009

Xanthurenic acid rabbit pAb - IS1014

Quinolinic acid

Quinolinic acid mouse mAb - IS002

Quinolinic acid rabbit pAb - IS1010

Picolinic acid rabbit pAb - IS1015

Serotonin

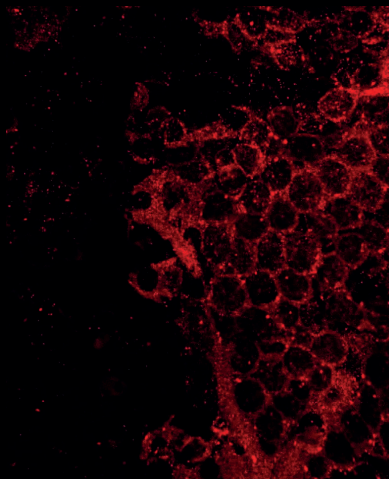
Serotonin mouse mAb - IS040

Serotonin rabbit pAb - IS1007

Serotonin goat pAb - IS1035

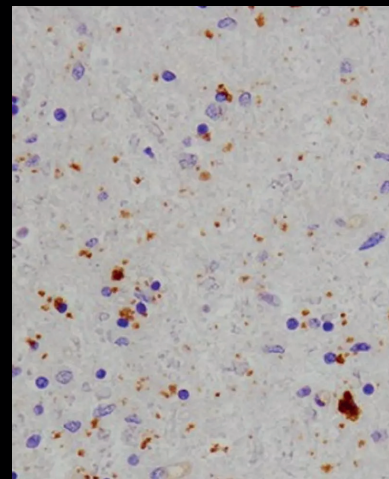
Serotonin rabbit pAb - IS1086 (FFPE samples)

Tryptophan



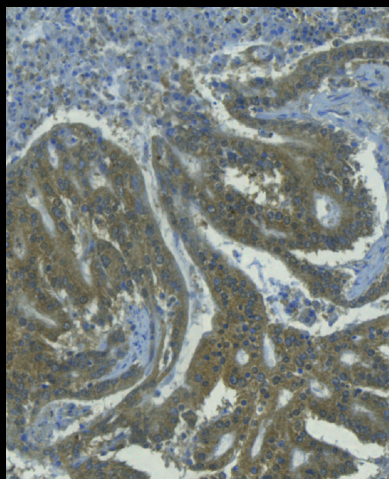
Tryptophan detection in crayfish brain using IS011 tryptophan mouse mAb with STAINperfect immunostaining kit.

Quinolinic acid



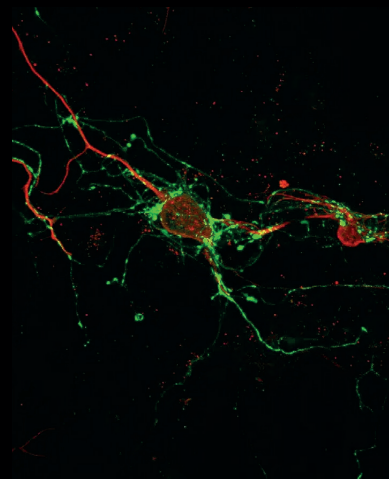
Quinolinic acid detection in FFPE human parkinsonian midbrain tissue by IHC using anti-QUIN IS1010 rabbit pAb.

Kynurenine



L-Kynurenine detection (IS003 mouse mAb) in FFPE human colon cancer tissue by IHC.

Serotonin



Anti-5-HT antibody staining (green - IS1007 rabbit pAb) in mouse primary hindbrain culture with STAINperfect kit.

Cited in 30+ papers, including

PNAS

Cancer
Cell

Immunity

nature
neuroscience