

KG408 Anti Mouse Haao Polyclonal Antibody		Gene ID	107766
Primary Source	MGI:1349444	Keyword	
Type	Polyclonal	3HAO; 3-HAO; 3-HAOxase; 0610007K21Rik; 0610012J07Rik; Haao 3-hydroxyanthranilate 3,4-dioxygenase	
Immunogen	Partial peptide of Mouse Haao		
Raised in	Rabbit		
Myeloma	-		
Clone number	-	Application	
Isotype	-		
Source	Rabbit serum	WB	Not tested
Purification notes	Antigen Affinity	IHC	5.0-10 µg/mL
Cross Reactivity	Not yet tested in other species.	ICC	Not tested
Concentration	0.25 mg/mL	ELISA	Not tested
Contents (Volume)	25 µg (100 µL/vial)	FCM	Not tested
Label	Unlabeled	Neutralization	Not tested
Buffer	PBS [containing 2 % Block Ace as a stabilizer, 0.1 % Proclin as a bacteriostat]	IP	Not tested
Storage	Store below -20 °C. Once thawed, store at 4 °C. Repeated freeze-thaw cycles should be avoided.		

Immunohistochemistry



Sample : Mouse liver (polyester wax section)

Note

Haao (3-hydroxyanthranilate 3,4-dioxygenase), also known as 3HAO, is a biosynthetic enzyme of quinolinic acid (QUIN). QUIN, a natural brain constituent, is a structural analogue of neurotransmitters such as L-glutamate and L-aspartate, and acts as an excitotoxin through NMDA receptors in neuron of central nervous system. The level of 3HAO expression and QUIN are high in the brain of the El mice which are established animal model for human epilepsy, and the increased production of QUIN is secondary to an increased activity of 3-hydroxyanthranilate 3,4-dioxygenase (3-HAO) in the brain of these mice. In human, the activity of 3HAO is higher in the brains of patients with Huntington chorea than in control brains.

Note

Haao (3-ヒドロキシアンスラニル酸 3,4-ジオキシゲナーゼ) は、3HAO としても知られているキノリン酸 (QUIN) 合成酵素です。QUIN は、L-グルタミン酸やL-アスパラギン酸といった神経伝達物質のアナログで、中枢神経系ニューロンでNMDA (N-メチル-D-アスパラギン酸) 受容体介して神経毒として作用します。Haao 及び QUIN は、通常のマウスの脳に比べて、ヒトてんかんモデルとして樹立された El マウスの脳において多量に存在しています。ヒトにおいては、ハンチントン舞踏病患者の脳で健常者に比べて、3HAOの活性が高いことが知られています。

Reference

- | | | |
|-------------------------|---|--|
| 1 Nakano, K. et al.: | Abnormally high activity of 3-hydroxyanthranilate 3,4-dioxygenase in brain of epilepsy-prone El mice | Brain Res.
1992 572 (1-2), 1-4 |
| 2 Eastman, C.L. et al.: | Differential expression of the astrocytic enzymes 3-hydroxyanthranilic acid oxygenase, kynurenine aminotransferase and glutamine synthetase in seizure-prone and non-epileptic mice | Epilepsy Res.
1994 18 (3), 185-194 |
| 3 Nakagawa, Y. et al.: | Increased expression of 3-hydroxyanthranilate 3,4-dioxygenase gene in brain of epilepsy-prone El mice | Brain Res.
1998 Mol. Brain Res. 58 (1-2), 132-137 |

WARNING AND PRECAUTION

- Not for diagnostic use. The safety and efficacy of product in diagnostic or other clinical uses has not been established.
- Harmful by inhalation, in contact with skin and if swallowed. Do not breathe dust. Avoid contact with skin and eyes.
- If contact with skin and eyes, wash all affected areas with large volume of water. If inhaled remove to fresh air. In severe case obtain medical attention.
- Wash hand thoroughly after handling the product.
- Do not use this product if container is broken or some contaminants are detected.
- When preserving the product, Close the container, ensure it does not fall aside or down.
- Dispose of the container and expired reagents in accordance with federal, state and local government regulations.
- Do not use the container and accessories of the product for other purpose.

取り扱い上の注意

この添付文書をよく読んでから使用して下さい。

- 本品は研究用試薬であり、医薬品その他の目的にはご使用になれません。
- 取り扱い中は皮膚、粘膜、着衣に触れたり、目に入らないように適切な措置を行って下さい。
- 試薬が誤って目や口に入った場合には、水で十分に洗い流すなどの応急処置を行い、必要があれば医師の手当を受けて下さい。
- 取り扱い後には手洗いを十分に行って下さい。
- 容器の破損、異物混入等異常が認められた物は使用しないで下さい。
- 試薬を保管する場合は、蓋をし、転倒落下防止を確実にし、指定の貯蔵方法で保管して下さい。
- 使用後の容器は、廃棄物に関する規定に従って処理して下さい。
- 容器、付属品等の他目的への転用は保証できません。