

Anti-TSPO Antibody (8L560)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human, Mouse
Conjugation:	Unconjugated
Clone:	8L560
Purification:	Affinity-chromatography

Applications

1. Western Blot

- Positive WB detected in: Hela whole cell lysate, MCF-7 whole cell lysate, HepG2 whole cell lysate, A549 whole cell lysate, Mouse kidney tissue
- All lanes: PBR antibody at 1.2µg/ml
- Secondary: Goat polyclonal to rabbit IgG at 1/50000 dilution
- Predicted band size: 19, 11 KDa
- Observed band size: 19 KDa

2. IHC image of TMAH-01222 diluted at 1:117 and staining in paraffin-embedded human pancreatic cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.

3. IHC image of TMAH-01222 diluted at 1:117 and staining in paraffin-embedded human colon cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.

4. Immunofluorescence staining of PC3 cells with TMAH-01222 at 1:39, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).

5. Immunoprecipitating PTGS2 in Hela whole cell lysate

- Lane 1: Rabbit control IgG instead of TMAH-01222 in Hela whole cell lysate. For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/2000)
- Lane 2: TMAH-01222 (3µg) + Hela whole cell lysate (500µg)
- Lane 3: Hela whole cell lysate (20µg)

6. Overlay histogram showing HepG2 cells stained with TMAH-01222 (red line) at 1:50. The cells were fixed with 70% Ethylalcohol (18h) and then permeabilized with 0.3% Triton X-100 for 2 min. The cells were then incubated in 1x PBS /10% normal goat serum to block non-specific protein-protein interactions followed by primary antibody for 1 h at 4°C. The secondary antibody used was FITC goat anti-rabbit IgG (H+L) at 1/200 dilution for 1 h at 4°C. Control antibody (green line) was used under the same conditions. Acquisition of >10,000 events was

Verified Activity:

A DRUG SCREENING EXPERT

performed.

Application: ELISA,FCM,IF,IHC,IP,WB

Recommended WB:1:500-1:5000; IHC:1:50-1:200; IF:1:20-1:200; IP:1:200-1:1000.

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: A synthetic peptide: Human TSPO

Antigen Species: Human

Gene ID: 706

Uniprot ID: P30536

Synonyms: Peripheral-type benzodiazepine receptor;Mitochondrial benzodiazepine receptor;Translocator protein;MBR;BZRP;PBR;PKBS

Biology Area: Cardiovascular

Research Background

Can bind protoporphyrin IX and may play a role in the transport of porphyrins and heme. Promotes the transport of cholesterol across mitochondrial membranes and may play a role in lipid metabolism, but its precise physiological role is controversial. It is apparently not required for steroid hormone biosynthesis. Was initially identified as peripheral-type benzodiazepine receptor; can also bind isoquinoline carboxamides.

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