**bs-23751R** **[ Primary Antibody ]**

# IDO1 Rabbit pAb

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## DATASHEET

**Host:** Rabbit **Isotype:** IgG

**Clonality:** Polyclonal

**Target:** IDO1

**Immunogen:** KLH conjugated synthetic peptide derived from mouse IDO1: 251-350/403.

**Purification:** affinity purified by Protein A

**Concentration:** 1mg/ml

**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**Background:** This gene encodes indoleamine 2,3-dioxygenase (IDO) - a heme enzyme that catalyzes the first and rate-limiting step in tryptophan catabolism to N-formyl-kynurenine. This enzyme acts on multiple tryptophan substrates including D-tryptophan, L-tryptophan, 5-hydroxy-tryptophan, tryptamine, and serotonin. This enzyme is thought to play a role in a variety of pathophysiological processes such as antimicrobial and antitumor defense, neuropathology, immunoregulation, and antioxidant activity. Through its expression in dendritic cells, monocytes, and macrophages this enzyme modulates T-cell behavior by its peri-cellular catabolization of the essential amino acid tryptophan.[provided by RefSeq, Feb 2011]

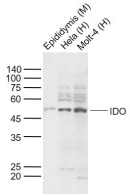
**Applications:** **WB** (1:500-2000)

**Reactivity:** Human, Mouse, Rat

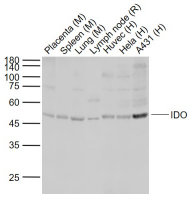
**Predicted MW.:** 45 kDa

**Subcellular Location:** Cytoplasm

## VALIDATION IMAGES




Sample: Lane 1: Mouse Epididymis tissue lysates Lane 2: Human Hela cell lysates Lane 3: Human Molt-4 cell lysates Primary: Anti-IDO (bs-23751R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 45 kD Observed band size: 48 kD




Sample: Lane 1: Mouse Placenta tissue lysates Lane 2: Mouse Spleen tissue lysates Lane 3: Mouse Lung tissue lysates Lane 4: Rat Lymph node tissue lysates Lane 5: Human Huvec cell lysates Lane 6: Human Hela cell lysates Lane 7: Human A431 cell lysates Primary: Anti-IDO (bs-23751R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 45 kD Observed band size: 47 kD