

Basic Information

Product Name	Anti-IBA1/AIF1 Antibody	
Gene Name	AIF1	
Source	Rabbit	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC	
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.	
Immunogen	A synthesized peptide derived from human IBA1	
concentration	500 ug/ml	
Purification	Affinity-chromatography	
Observed MW	17KD	
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry in paraffin section (IHC): 1:50-200	

Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

Background Information

Allograft inflammatory factor 1 (AIF-1), also known as ionized calcium-binding adapter molecule 1 (IBA1), is a protein that in humans is encoded by the AIF1 gene. This gene encodes a protein that binds actin and calcium. And this gene is induced by cytokines and interferon and may promote macrophage activation and growth of vascular smooth muscle cells and T-lymphocytes. Polymorphisms in this gene may be associated with systemic sclerosis. Alternative splicing results in multiple transcript variants, but the full-length and coding nature of some of these variants is not certain.

Selected Validation Data

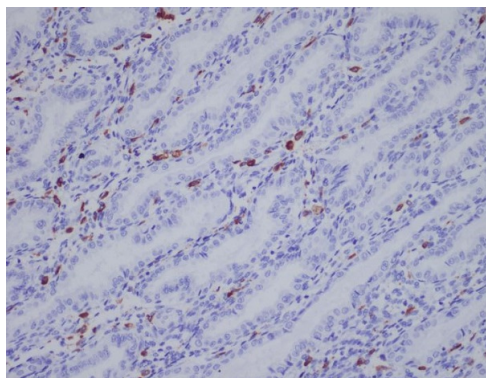


Figure 1. IHC analysis using anti- AIF1/IBA-1 antibody (BM5765). detected in paraffin-embedded section of human uterus tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

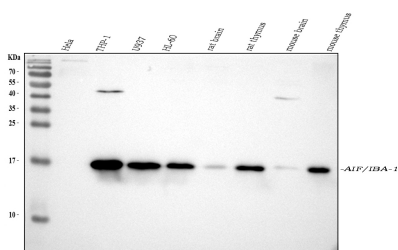


Figure 2. Western blot analysis of anti- AIF1/IBA-1 antibody (BM5765). The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: Hela whole cell lysates,
Lane 2: THP-1 whole cell lysates,
Lane 3: U937 whole cell lysates,
Lane 4: HL-60 whole cell lysates,
Lane 5: rat brain tissue lysates,
Lane 6: rat thymus tissue lysates,
Lane 7: mouse brain tissue lysates,
Lane 8: mouse thymus tissue lysates.

Use mouse anti- AIF1/IBA-1 1:1000, probed with a goat anti-mouse IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for AIF1/IBA-1 at approximately 17KD. The expected band size for AIF1/IBA-1 is at 17KD.