

## eth\_getUncleByBlockHashAndIndex

Returns information about a uncle of a block given the block hash and the uncle index position.

## Parameters

- block hash
- : [Required
- ] A string representing the hash (32 bytes) of a block.
- uncle index position
- : [Required
- ] A hexadecimal equivalent of the integer indicating the uncle's index position.

## Returns

A block object, or null when no block was found. The block object returned will consist of the following keys and their values:

- number
- : The block number.Null
- when the returned block is the pending block.
- hash
- : 32 bytes. Hash of the block.Null
- when its pending block.
- parentHash
- : 32 bytes. Hash of the parent block.
- nonce
- : 8 bytes. Hash of the generated proof-of-work.Null
- when the returned block is the pending block.
- sha3Uncles
- : 32 bytes. The SHA3 of the uncles data in the block.
- logsBloom
- : 256 bytes. The Bloom filter for the logs of the block.Null
- when the returned block is the pending block.
- transactionsRoot
- : 32 bytes. The root of the transaction trie of the block.
- stateRoot
- : 32 bytes. The root of the final state trie of the block.
- receiptsRoot
- : 32 bytes. The root of the receipts trie of the block.
- miner
- : 20 bytes. The address of the beneficiary to whom the mining rewards were given.
- difficulty
- : The hexadecimal of the difficulty for this block.
- totalDifficulty
- : The hexadecimal of the total difficulty of the chain until this block.
- extraData
- : The "extra data" field of this block.
- size
- : The hexadecimal of the size of this block in bytes.
- gasLimit
- : Maximum gas allowed in this block.
- gasUsed
- : Total used gas by all transactions in this block.
- timestamp
- : The unix timestamp for when the block was collated.
- uncles
- : (Array). An array of uncle hashes.

## Example

Replace YOUR-API-KEY with an API key from your [Infura dashboard](#)

## Request

- cURL
- WSS

```
curl https://optimism-mainnet.infura.io/v3/YOUR_API_KEY -X POST -H "Content-Type: application/json" -d '{"jsonrpc": "2.0", "method": "eth_getUncleByBlockHashAndIndex", "params": ["0xb320624f80f86eb50dd04688a09e5cea4bd02d700bf679e93844d7d6a5a35", "0x0"], "id": 1}' wscat -c wss://optimism-mainnet.infura.io/v3/YOUR_API_KEY -x '{"jsonrpc": "2.0", "method": "eth_getUncleByBlockHashAndIndex", "params": ["0xb320624f80f86eb50dd04688a09e5cea4bd02d700bf679e93844d7d6a5a35", "0x0", "id": 1}'
```

## Response

- JSON

[illegible]

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